



AD A I O O S S Z

METEOROLOGICAL DATA REPORT 20301A Assault Breaker Missile No. FTV-1 Round No. VIGI 31 March 1981

by

White Sands Meteorological Team

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

DTIC ELECTE JUN 3/4 1981

81 6 24 072

THE FILE COPY

DISPOSITION INSTRUCTIONS

Destroy this report when it is no longer needed. Do not return to the originator.

DISCLAIMER

The findings in this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.

The citation of trade names and names of manufacturers in this report is not to be construed as official Government indorsement or approval of commercial products or services referenced herein.

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOC	CUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	4 4	3. RECIPIENT'S CATALOG NUMBER
DR 1171	AV A100 53	5. TYPE OF REPORT & PERIOD COVERED
4. TITLE (end Subsiste) / 20301A Assault Break Missile Number FTV-1		3. THE OF REPORT & PERIOD COVERED
Round Number VIGI	<i>)</i>	6. PERFORMING ORG, REPORT NUMBER
7. AUTHOR(a)		8. CONTRACT OR GRANT NUMBER(*)
White Sands Meteorol	ogical Team	DA T-01-156657020127-02
9. PERFORMING ORGANIZATION N	AME AND ADDRESS	DA Task 1F665702D127402 10 PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
	/ .	AREA & WORK UNIT NUMBERS
	<i>,</i>	1.7
11. CONTROLLING OFFICE NAME US Army Electronics	AND ADDRESS Research & Development Cmd	TZ. REPORT DATE
Atmospheric Sciences White Sands Missile	s Laboratory Range, New Mexico 88002	13. NUMBER OF PAGES
	ADDRESS(If different from Controlling Office)	15. SECURITY CLASS. (of this report)
US Army Electronics	Research & Development Cmd	UNCLASSIFIED
Adelphi, MD 20783	·	154. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (a	f this Report)	Accession For
	DISTRIBUTION STATEMENT A Approved for public telease; Distribution Unlimited	MTIS GRARI DTIC TAB Unannounced Justification
17. DISTRIBUTION STATEMENT (or	f the abstract entered in Block 20, if different fro	Distribution/
Approved for public	release; distribution unlimi	
		Dist Special
18. SUPPLEMENTARY NOTES		A .
		<u> </u>
19. KEY WORDS (Continue on revers	e side if necessary and identify by block number	
	,	
1		
20. ABSTRACT (Continue on reverse	side if necessary and identity by block number)	
Meteorological data Missile Number FTV-	gathered for the launching o l, Round Number VIGI, present	f the 20301A Assault Breaker, ed in tabular form.

DD 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

// /

UNCLASSIFIED
SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

CONTENTS

INTRODUCT	TION	1
DISCUSSIC)NN	1
MAP		2
TABLES:		
1.	Surface Observation taken at 0918 MST at LC-33	3
2.	Surface Observation taken at 0842, 0912 and 0942 MST at Jallen Site	4
3.	Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole, taken at 0918 MST	5
3a.	Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, taken at 0918 MST	5
4.	LC-33 Pilot-Balloon-Measured Wind Data at 0908 MST	6
5.	LC-33 Pilot-Balloon-Measured Wind Data at 0918 MST	7
6.	WSD Significant Level Data at 0918 MST	8
7.	WSD Upper Air Data at 0918 MST	10
8.	WSD Mandatory Levels at 0918 MST	16
9.	LC-37 Significant Level Data at 0755 MST	17
10.	LC-37 Upper Air Data at 0755 MST	19
11.	LC-37 Mandatory Levels at 0755 MST	25
12.	HMN Significant Level Data at 0655 MST	26
13.	HMN Upper Air Data at 0655 MST	27
14.	HMN Mandatory Levels at 0655 MST	
15.	Jal Significant Level Data at 0655 MST	
16.	Jal Upper Air Data at 0655 MST	14
17.	Jal Mandatory Levels at 065° Mc.	36
18.	Jal Significant (Pro	37
19.	Ja! • • • • • • • • • • • • • • • • • • •	38
	tivels at 0918 MST	42

INTRODUCTION

20301A Assault Breaker, Missile Number FTV-1,	Round Number <u>V1G1</u> ,
was launched from <u>LC-33</u> , White Sands Missil	le Range (WSMR), New
Mexico, at <u>0918</u> on <u>31 March 1981</u> . was <u>0855</u> .	The scheduled launch time
DISCUSSION	
Meteorological data were recorded and reduced by the Team, Atmospheric Sciences Laboratory (ASL), White Mexico. The data were obtained by the following met	Sands Missile Range, New
1. Observations	
a. Surface	
(1) Standard surface observations	
ature (°C), relative humidity, dew point	restion
and speed, and cloud cover were	retigite at T-O
minutes.	
, inection	on from one anemometer was
Provide the second of the seco	
w level wind data were obtained	from Single Theodolite
SITE AND ALTITUDE	
LC-33 1260 Meters and 60	60 Meters.

(b) Air structure data (rawinsonde) were collected at the following met sites. Data were collected from surface to as high as possible in 500-foot increments.

SITE AN	D TIME
WSD	0918
LC-37	0755
HMN	0655
Ja l	06ა5
Jal	0918

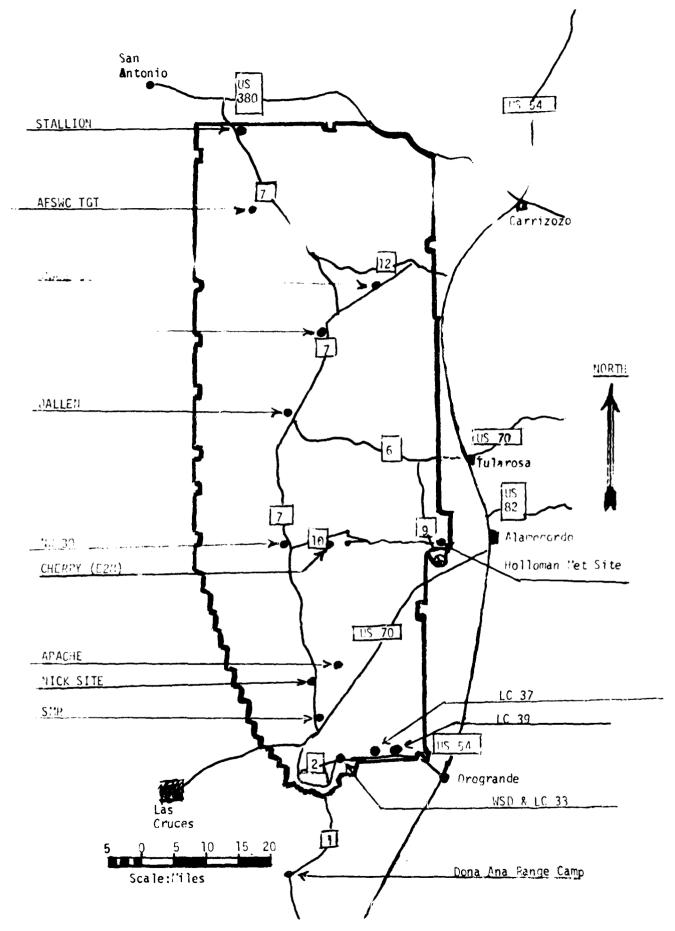


TABLE 1. Surface Obsrevations taken at 0918 MST, 31 March 1981, at LC-33 (E&A) 20301A Assault Breaker, Missile Number FTV-1, Round Number V1G1.

ELEVATION	3983	r T/MSL
PRESSURE	882.4	MBS
TEMPERATURE	16	°c
RELATIVE HUMIDITY	31	
DEW POINT	-01	° _C
DENSITY	1059	GM/M ³
WIND SPEED	12	KTS
WIND DIRECTION	015	DEGREES
CLOUD COVER	CLEAR	

PROJECT SURFACE OBSERVATION

TABLE	2							STATION	JALLEN		
DATE 31	MARCH	1981	,					X=450,491,60	Į.	Y= 464,023.05 H= 4053.00	= 4053.00
11ME 다 S 다	PRESSURE Mbs	TEMPERATURE of oC	ATURE OC	DEW POINT OF OC		PELATIVE HUMIDITY %	DENSITY gm/m ³	DIRECTION degs Tn	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
0842	879.5		13.5		-13.2	14	1066		CALM		20
2160	879.6		13.9		-10.9	17	1064	270	02		20
0942	879.8		15.1		-11.3	15	1960	240	03		20

			_	SUITO T.					
STRUCTIONS	1st 1	AYER	2nc	I LAYE	8	1 3r	1 LAYE	R	REMARKS
TO VISIBILITY	AMT TYPE HGT	PE J H	AMT	TYPE	AMT TYPE HGT	AMT	AMT TYPE HGT	нст	
	-	<u>_</u>							
•									CLEAR
		-							
			 _						CLEAR
	+	+							
									CLEAR

PSYCHROMETRIC COMPUTATION

TINE:	0842	0912	0942	
DRY BULB TEMP.	13.5	13.9	15,1	
WET BULB TEMP.	03.5	1.40	04.6	
WET BULB DEPR.	10.0	8.60	10.5	
DEW POINT	-13.2	-10.9 [-11.3	-11.3	
RELATIVE HUMID.	14	17	15	
	70 00 00 20 20 20 20 20 20 20 20 20 20 20		00	5

DELAS-MS-MT-WS FORM 12 01 NOV 1980

OBSERVER VERIFIER Supersedes AMSEL-BL-MT-WS Form 12, 28 Aug 72 and all project surface Observation for.

TAB	Łi	Ε	3
	•	Ψ.	

POLE #1 X485,87 Y185,95 H4018.7 38.7 ft	8.90 4		POLE #2 X485,874 Y186,012 H4033.57 53.0 ft.	.93 .00		POLE # X485,87 Y186,110 H4063.9 83.6 ft	7.29 6.06 2	
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	017	14	-30	022	12	-30	026	15
-20	027	14	-20	011	10	-20	035	15
-10	013	14	-10	027	09	-1)	029	15
0.0	028	12	0.0	018	. 09	0.)	027	16
+10	036	09	+10	025	08	+10	033	14

TABLE 3a LC-33 METEOROLOGICAL TOWER ANEMUMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 X484,982.64		H3983.00 (base)	LEVEL #2, 62 X484.982.64,		H3983.00 (hase)
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	027	11	- 30	030	15
-20	021	09	-20	038	15
-10	019	10	-10	012	15
0.0	015	12	0.0	015	13
+10	009	12	+10	018	14

LEVEL #3, 10 X484,982.64,	02 FEET Y185,057.7	3, H3983.00 (base)	LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.00 (base)				
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED ETS		
-30	022	09	- 30	016	12		
-20	М	11	-20	010	13		
-10	018	09	-10	010	12		
0.0	024	09	0.0	018	12		
+10	008	11	+10	015	14		

PILOT BALLOON MEASURED WIND DATA

COORDINATES (WSTM) X= 486,037,24	LYREF	4									
NOTE: WIND DIRECTIONS ARE REFERENCED TO HEIGHTS ARE METERS AGL X OR FEET AGL HEIGHT DIRECTION SPEED AGL DEGREES KTS SEC 015 11 60 014 12 12 180 013 13 13 240 012 12 300 012 13 360 010 14 420 360 12 480 349 12 540 336 11 600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 9900 288 18 960 284 20 1020 280 276 19 1140 272 18 1200 268 18 18 1200 268 18 18 1200 268 18 18 1200 268 18 18 1200 268 18 18 1200 268 18 18 1200 268 18 18 1200 268 18 18 1200 268 18 18 1200 268 18 18 1200 268 18 18 1200 268 18 18 1200 268 18 18 1200 268 18 1200 268 18 1200 262 1000 268 18 1200 262 1000	RELEASED	FROM	C-33		DATE	31 March	_1981			TIME0908	MST
HEIGHT DIRECTION SPEED HEIGHT DIRECTION SPEED AGL DEGREES KTS		CO(RDINATE	S (W	STM) X=	486,037,24	Υ	18	33,350.16	H= 39	77.30
HEIGHT DIRECTION SPEED HEIGHT DIRECTION AGL DEGREES KTS	NOTE: W	IND DIRECTI	ONS ARE	RE F	ERENCED T	0					
AGL DEGREES KTS AGL DEGREES KIS AGL DEGREES KTS sfc 015 11 0	HEIGHTS	ARE METERS	AGL X	OR	FEET AGL_	•					
sfc 015 11 60 014 12 120 013 12 180 013 13 240 012 12 300 012 13 360 010 14 420 360 12 480 349 12 540 336 11 600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18											
60	:				AGL	DEGREES	K15		AGL	DEGREES	KTS
120 013 12 180 013 13 240 012 12 300 012 13 360 010 14 420 360 12 480 349 12 540 336 11 600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18		1	-								
180 013 13 240 012 12 300 012 13 360 010 14 420 360 12 480 349 12 540 336 11 600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18	!		1		}					<u> </u>	
240 012 12 300 012 13 360 010 14 420 360 12 480 349 12 540 336 11 600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18	i	Ī	Ī		! 						
300 012 13 360 010 14 420 360 12 480 349 12 540 336 11 600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1140 272 18 1200 268 18	!	Ĭ	·								
360 010 14 420 360 12 480 349 12 540 336 11 600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1140 276 19 1140 272 18 1200 268 18											
420 360 12 480 349 12 540 336 11 600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18	I	T									}
480 349 12 540 336 11 600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18		1									
540 336 11 600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18											
600 324 12 660 313 12 720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18											
660 313 12 720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18	} 		1								
720 305 14 780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18	<u> </u>	+	+								
780 298 15 840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18	1	·									
840 292 16 900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18	<u></u>	 	 		}						
900 288 18 960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18	· -				ļ						
960 284 20 1020 280 20 1080 276 19 1140 272 18 1200 268 18			· -		 						
1020 280 20 1080 276 19 1140 272 18 1200 268 18	<u> </u>										
1080 276 19 1140 272 18 1200 268 18	\ . 		+ -								
1140 272 18 1200 268 18	} ·		 								
1200 268 18	·	+	1		!						
1.00	·	· · · · · · · · · · · · · · · · · · ·	•		ļ 	<u> </u>					
	·	263	1								
			18								
				ł							
								1			
	·	 						{			
			1					1			
		 	 	\ 				1			
			j								
			·					1			
		t						1			

PILOT BALLOON MEASURED WIND DATA

FLEASED	FROM_L	C-33	TACDAT	E 31 March	1981		TIME 0918	MST
	C	OORDINATES	(WSTM) X	486,037.2	4γ	186,350.16	_{H=} 397	7.30
OTE: WI	IND DIREC	TIONS ARE	REFERENCED	10				
I GHTS	ARE METER	IS AGL_X	OR FEET AGL	·				
HEIGHT	DIRECTIO	N SPEED	HEIGHT	DIRECTION		HEIGHT	DIRECTION	SPEED
\GL_	DEGREES	KTS	AG!_	DEGREES	KTS	AGL	DEGREES	KTS
sfc	015	12	·	+				
60	010	11	<u> </u>	+				
120	007	11			+ · ·			
180	005	10	! 		+	j		
240	003	10	!		+			ļ
300	001	11	ļ 		+			ļ
360	357	11						
420	345	10	-		 			ļ
480	331	10		 -				
540	319	11						ļ
600	308	12			 			
660	299	13			<u> </u>	ļ		
	ļ							ļ
	1							
					1		·	
		1						
	<u> </u>	- +			1			
	 	1						
	 				 			ļ
								
								
					 			
	<u></u>			 	 			
					 			
		i ;						1

SIGHIFICANT LEVEL DATA	09000>0214 VHITE SANDS	TABLE 6
	STATION ALIITUDE 3989.00 FEET MSL 31 MAR. 81 0918 HRS MST	ASCENSION NO. 214

GEODETIC COOKDINATES 32.40043 LAT DEG 106.37033 LON DEG

REL.HUM. PERCENT	25.0 28.0 30.0 31.0 22.0 22.0 22.0 22.0 17.0 18.0 19.0 19.0	
TEMPERATURE IR DEWPOINT REES CENTIGRADE	1	
JEMPI AIR Degkees	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-51.7
GEOMETRIC ALTITUDE , MSL FEET	3989.0 4515.3 5019.1 6055.3 6055.3 11071.7 11071.7 110816.6 22103.0 22103.0 22103.0 30708.5 39722.0 39722.0 43466.3 44466.3 44466.3 47131.7 46088.6 47131.7 46088.6 47131.7 46088.6 47131.7 46088.6 47131.7 46088.6 47131.7 46088.6 47131.7 46088.6 47131.7 47261.0 67364.0 67364.0	8008
PKESSURE MILLIBARS	882.0 8655.4 7734.6 7734.6 7734.6 7734.6 7734.6 7737.0 7737.0 7744.2	÷

STATION ALITTUDE 3989.00 FEET MSL 31 MAR. 81 0918 HRS MST ASCENSION NO. 214

SIGNIFICANT LEVEL UATA

6EODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

REL.HUM. PLRCENI TABLE 6 cont' IEMPERATURE AIR DEWPOINT DFGREES CENTIGRAIG 0900020214 WHITE SANDS -47.0 -47.0 -45.8 -41.5 -37.0 -36.4 PRESSURE GEOMETRIC ALTITUDE MILLIBARS NSL FEET 30.0 78649.4 26.0 61958.7 23.6 84087.0 20.0 87769.3 15.2 93995.0 10.0 103604.4 9.6 104543.5

		i.	<u>.</u>	_	UPPER AIR DAT	JATA			
I MAR. HI		3989.00 FECT MSL 0918 HRS MST	MST MST		MHITE SANDS	±		132 (GEODETIC COOKDINATES 32,40043 LAT DEG
A PLE PS TON 140.	c 14		<u>;</u>			<u>.</u>		106.	106.37033 LOW DEG
· JAK TRIC	PRESSURE	TEM	TEMPERATURE	REL.HUM.	DENSITY	SPEFU OF	WINL DAIA	١ ٨	INUEX
1 TUDE	1	AI	DEWPOINT	PERCENT	2	SOLIN)	DIRECTION	SPEEU	J.
+ 2 6 5	FILLIDARS	DEGREES	CENT IGRADE		METER	KNOTS	DEGREES (IN)	KNOTS	REFRACTION
0.646	8650	16.0	0.4-	25.0	1060.6	663.1	30.0	8.9	1.000257
0.00	981.6	15.9	0 • 1) -	25.1	1060.4	663.0	29.3	8.9	1.000257
0.00	6.598	12.7	-5.4	27.9	1053.4	659.3	358.4	9.3	1.000254
0.00	850.3	11.9	-5.1	30.0	1037.2		336+2	11.8	1.000251
O	834.9	11.1	-5+3	31.1	1021.3	4.7.4	322.9	15.5	1.000247
0.0	819.7	6•6 6	0.9-	32.0	1007.0		310.0	17.8	1.000243
3 6	700407	7.5	-6.6	30.00	992.8	414.0	290.0	200	1.000235
= =	777.5) H. 4	C - C -	9 9 9	965.1		785	4 · · · · ·	1.000231
	761.4	5.1	-8-7	35.9	951.6		281.8	25.2	1.000227
	741.2	4.1	-11.4	31.3	937.7		279.9	27.5	1.000222
	733.4	3.1	-14.5	26.0	923.9	647.8	278.2	29.6	1.000216
•	719.7	1.9	-17.6	21.7	910.7		276.0	31.5	1.000211
•	700.2	ស.	-19.5	20.5	894.5		275.5	32.9	1.000207
·	6.769	P	-21.1	19.0	884.2		275-1	32.8	1.000203
~ .	0.710	9:	-22-4	17.3	86H•4		2/4.5	32.9	1.000199
· · · · · · · · · · · · · · · · · · ·	2000	-1.5	-23.4	16.9	854.6		274.7	33°21	1.000195
	1929	-2.6	-24.3	16.9	941.4		2/4.1	0.00	261000-1
2002	D - 1 #4	1.5-	-25•3	16.8	824.4	639.6	9.172	7.00	49100U-I
30.07	0	D (-26.2	16.8	815.6	6.48.5	6.602	37.6	1.000183
10000		V • C -	15/51	10.7	790.5	0.140	267.64	00°0	1.000179
14500.	\$	8	0.00	9.91	77A.4		265.6	36.8	1.000176
15000.6	• •	-9.5	-30.0	16.5	766.5		262.3	35.1	1.000173
15500.0		•	-30.9	16.4	754.7		261.5	35.7	1.000171
16000-0	Ę		-31.9	16.4	743.1	-	262.6	37.9	1.000168
16500.0	•		-32.8	16.3	731.7		262.5	39.6	1.000165
17000.0		-13.5	-33.7	16.2	720.5		262.4	3 C	1.000152
1,500.0		0.61	- +C	7.01	# · 60 /		1,202	200	1.000157
18500.0		10 C	36.6	16.1	687.0	4.5.4	250.5	# 12 m	1.000155
19000.0	٠	-17.9	-37.5	16.0	677.1		200.0	47.3	1.000152
19500.0	5	-18.8	-38.3	16.0	665.9	-	526.6	48.0	1.000150
20000	3	8.61.	-39.1	16.0	6.459		259.5	46.8	1.000147
<0.0000	j	7.0	-39.9	16.0	644.1	619.0	258·H	45.2	1.000145
<1000.0	·	1.8	9.04-	16.3	633.6		557.9	L	1.000142
<1500.0	3	3.2	9.04-	18.4	624.2	_	257.6	3 C	1.000140
<2000.0	4 38	/ : ;	8.04-	20.6	615.0	_	25/11	X .	1.000138
22500.0		•	-41.8	20.3	9.409	612	201.0	•	1.000138
< 3000.0	450.1		-43.0	19.3	594.1	611.9	0.752	0.10	1.000133

SI MAR. HI	-	2							NEVOL 11 COUNTINATES
	~14		- 1 2		WHILE SANDS TABLE 7 CON	awus cont'		32. 106.	32.40043 LAT DEG 106.37033 LON DEG
GEUMETRIC ALITIUDE	PRESSURE	TEMPLHAT AIR DEW	LKA1 DE	WEL HUM.	DENSITY GM/CUBIC	SPEFL OF	WIND DATA	TA SPEED	INUEX
_	MILLIUARS	Ŋ	CENTI 7.		METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
<3500·0	411.9	-27.4	***************************************	3 .	583.7	610.8	257-1	54.0	1.000131
24000·0	400.3	-28.5	. • 0.4-	0•ы	574.2	4.609	257.2	56.6	1.000129
24500.0	394.8	-59.9	-46.5	£.,	565.3	_	257.4	59.0	1.000127
25000.0	380.4	-31.4	11.17.11		556.7	6.509	257.1	†•09	1.000125
25500.0	370.2	-32.8	7.87-	÷.	548.1		256.1	9∙09	1.000123
20000.0	370.0	-34.2	3.051	• • • • • • • • • • • • • • • • • • • •	539.4	6n2.2	6.452	9.09	1.000121
C	362.0	-35.6	-53.1	•	530.B		253.4	60.3	1.000119
27000.0	354.1	-37.0	0.95-	•	522+3	5a8.7	552.9	60.3	1.000117
27500.0	340.3	-38.4	++65 -	:	514.0	9-909	253.2	60.7	1.000115
28000.0	330.8	-39.8	-63.5	•	505.8		253.6	61.1	1.000113
28500.0	331.4	-41.5	-69-3	•	497.8		254 • 1	61.5	1.000111
7.0006.0	324.2	-45.6	-88•8	•	6.684	541.5	253.3	61.7	1.000109
< 3200·0	310.9	-43.7			481.1		252•1	61.8	1.000107
0	504.8	-44.7			472.5		250+4	61.4	1.000105
30500.0	302.0	-45.8			0.494	547.5	Z+R•Z	61.1	1.000103
0.00010	290.0	6.91-			455.6		247.7	60.0	1.000101
_	289.1	0.81-			3· / 33		247.0	61.7	1.000100
_	282.5	7.67-			4.004		247.1	6.49	1.000098
32500.0	270.0	150.4			2.10.4 0.10.4	5A1.5	247.6	68.6	1.000096
0.00000	269.6	-51.5			423.8		2.8.2	12.7	1.000094
33500.0	263.4	-52.1			410.2		248.5	72.0	1.000093
34000.0	25/03	-53.9			8.40s		248.0	70.0	1.000001
34500.0	251.4	-55.0			5·10 ⁴		247.3	65.0	1.000089
_	242.0	-22.			393.3		240.2	60.8	1.000008
35500.0	239.1	-56.2			384.9		240.8	61.3	1.000086
36000.0	234.0	-26-8			8.47		247.3	63.3	1.000084
36500.0	228.5	-57.5			364.0	_	248.0	74.0	1.000082
37000.n	223.0	-58.2			7.7		250.2	6.48	1.000080
3/500.0	21/1./	-58.9			•	570.3	251.1	36.2	1.000079
0.0008c	217.5	-59.6			4	549.4	251.5	103.9	1.000077
38500.0	207.4	-59.9			3	568.9	251.2	102.1	1.000075
39000.0	204.5	-60.0			ブ ・・・・	5k8.7	250+1	7.16	1.000074
59500.0	197.6	-59.7					247.2	76.8	1.000072
40000.0	192.9	-58.8			:: 7		243.1	60.2	1.000070
0	188.3	-58.0				5.71.4	236.0	45.3	1.000068
41000.0	182.8	-57.2			75.	572.5	234.3	†0	1.000066
41500.0	179.5	-56.4			*	573.6	0.047	48.4	1.000064
42000.0	175.2	-56.1			281.		245+7	62.1	1.000063
42500.0	171.1	-55.8			274.	74.3	4.002	A2.0	1.000061
, ,								, , ,	

** AT LEAST ONE ASSUMED RELATIVE HULIDITY VALUE AND BED IN THE INTERPOLATION.

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG		I INDEX		KNOTS REFRACTION	99.6 1.000058	94.0 1.000057	-	-	7	56.5 1.000052	TC0000 : 0.80	1.000044 1.000048	-	-	-			Z*0000•I / · ›	-	-	-	_	.	34.7	35.3		•	•	•	000000000000000000000000000000000000000	. •		-	47.7 1.00027	-	.7 1.006c.z	47.00.1 45.00.1 1.000.1	
		* . Pt. DATA	רואי	(NE CHEE) 14)	×5.4.	2,54.	255.	255.	.555	255.	7.002	256.5	255+H	255.5	254 • 1	251.7	250•8	320.6	25.25	252.2	251.4	248.7	245.7	7.6542	743.0	242.4	241.5	239.9	239.5	240.4	241.1	241.4	241.1	5.045	240.1	240.8	240.0	2
74 TA 14 55	cont'	SPEFD OF	SOUND	KNOTS	575.11	574.6	574.2	573.8				573.0					569.7		0.00 A						35.55 5.55 5.33			567.9	567.8	56/01	567.4	567.3	547.2	567.1	547.0		566.7)))
UPPER AIR DATA 0900020214 WHITE SANDS	TABLE 7 CO	DENSITY	GM/CUBIC	METER	260.9	255.1	244.5	243.9	234.1	232.0	220.0	217.1	212.2	207.4	202.9	198.8	194.7	190.7	181.0	176.8	172.8	169.0	165.2	161.3	153.5	7.07	146.4	142.9	134.5	136.2	124.8	126.8	123.8	120.8	114.0	115.2	112.5	; , , , ,
ے		REL.HIM.	PERCENT																																			
ET MSL NST		TEMPERATURE		CENTIGRADE																																		
989.00 FEET MSL 0918 HRS NST		TEM	AIR	DECREES	-55.3	-55.6	-55.9	-56.2	-56.2	-55.7	0.001	156.8	-57.1	-57.3	-57.8	-58.5	-59.3	9.09-	15.0	-59.3	-59.7	-60.0	- (00)	100-	4.00-	-60.5	-60.5	9.09-	-60.7	0.09	-61.0	-61.1	-61.2	-61.3	-61.4	-61.4	-61.5	
£ 41		PRESSURE		MILLIDARS	165.1	159.3	155.5	151.9	146.3	144.00 2.1.1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1.54.8	131.6	126.5	125.4	122.5	119.5	115.0	111.2	100.5	105.9	103.4	6.001	0.90	9.56	91.5	84•3	8/.2	80.1	0.18	79.1	11.2	75.3	73.5	711.7	70.0	5.00	1
STATION ALIITUDE 31 MAR• B1 ASCENSION NO• 2		GEOMETRIC	AL 11TUDE	MSL FEET	43500.0	0.000++	44500.0	42000.0	45200.0	46900.0	0.00004	47506.0	48000.0	48500.0	0.0006+	49500.0	0.00000	0.00014	0.00010	52000•0	52500.0	53000.0	53500.0	0.000+0	55000.0	55500.0	26000•0	56500•0	5/000.0	58000.0	58500.0	59000.0	59500.0	6.0000·0	0.00509	61000.0	61500•0	

STATION ALIITUDE 31 MAR. 81 ASCENSION HO. 2.	-	3989.00 FEET MSL 0918 HRS NST	_	UPPER AIR DAI 0900020214 WHITE SANDS TABLE 7 CONT	AIR DATA S20214 SANDS 7 cont'		4E UDE T I 32• 106•	GEUDETIC COOKDINATES 32-44043 LAT DEG 106-37033 LON DEG
GEUMETRIC ALTITUDE	PRESSURE	TEMPERATURE AIR DEWPOINT	REL.HUM. PERCENT	DENSITY GM/CUBIC	SPEFU OF SOLIND	WIND DATA	SPEED	INUEX
אשר דנבי	SHELLIONS.			보 교 교 보	~	()EGREES (IN)	200	MEPWAC 1 1 UN
63500·0	0 • > 9	-60.1		101.3		237.0	32.4	1.000023
0.00040	S-09	-59•1		94.46		6.55.5	29.1	1.000022
0.000.0	0.60	2.6SI		1.96	_	230.1	26.2	1.000021
0.00000	57.5 54.5 64.5	154.5		93.9		225.5	23.6	1.000021
66000.0	0.49	-59•1	•	9.16	570.0	215.0	19.9	1.000020
66500.0	9.09	-58.7		87.1		212.3	16.1	1.000019
67000.0	52.3	-58.3		84.8	-	208 • 4	12.2	1.000019
v7500·0	51.1	-57.9		82.7	571.6	215.7	9.0	1.000018
0.00000	ؕ7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	#57•5		80.6		250.9	6.5	1.000018
0.0000	4047	2016-		7.		0 • 1:62	¥ 6	
0.00050	40.4	-56.7		74.7	572.9	270.6	£	1.00001
70000.0	40.3	-10.00		72.4	_	270.6	16.1	1.000016
70500.0		-53•1		70.1		270.6	19.1	1.000016
71,000.0		-52.4		6H.3		209.B	21.2	1.000015
73500.0		-552 • 8		66.8		209.1	23.2	1.000015
72500.0	€ 6 0 ¢	52.8		63.7	577.7	267.4	25.0	1.000015
73000.0		-52-3		62.1		263.4	24.5	1.000014
73500.0	36.5	-51.6		9•09		262 • 1	20.7	1.000013
74000.0	3/.6	-51.2		94.0		260.3	16.9	1.000013
75000.0	2000 2000	-50.5		56.1	5A1.0	258.4 254.0	12.3	1.000013
75500.0	35.1	-50.7		54.9		5.042	A	1.000012
1,6000.0	か・ナウ	-20.9		53.7		153.9	1.7	1.000012
76500.0	33.5	-51•1		52.5		102.6	5.0	1.000012
0.000.7	31.9	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5,10		91.5	٠.	1.000011
78000	31.2	7-1-1		2.04	240.0	2 3	10.4	1100001
78500.0	30.5	-11.2		47.0	500.4	7 000	11.4	1.00001
79000.0	29.8	-50.6		45.6		95.4	9	1.000010
79500.0	29.1	-50.0		45.5		108.5	6.5	1.000010
0.00000	20.5	ħ•6ħ-		6.44		137.5	† †	1.000010
80500.0	27.8	8-84-		43.2		154.5	4.1	1.000010
81000.0	2/•2	148.2		45.1		171.7	:	1.000009
81500.0	20.6	9-24-		41.0		186.4	٠. د.	1.000009
0.000.00	7 C	0 - / 1-		0.0	5A5.9	19804		1.000009
63000.0	24.8	1.00+		38.1		216.6	,	1.000008

DETIC COOKDINATES 32-40043 LAT DEG 106-37033 LON DEG	INUEX	REFRACTION	1.000008	1.000008	1.000008	1.000008	1.000007	1.000007	1.000007	1.000007	1.000001	1.00000	1.00000	1.000006	1.000006	1.000006	1.000006	1.000005	1.000005	1.000005	1.000005	1.000005	1.000005	1.000005	1.000005	1.000004	1.000004	1.00004	1.000004	1.000004	1.000004	1.000004	1000001	#0000u•1	1.00000	1.000004	1.000004	1.000003	1.000003
.E00E11C 32.4(106.37	TA SPEED	KNOTS	8.9	10.5	12.1	13.8	17.1	18.5	19.3	20.0	19.8	C 4		7.71	15.6	15.6	15.7	14.2	11.4	8 · 8	2.7	0.0	17.0	23.1	28.3	25.8	22.B	19.4	8.5	3.8	13.6	20.9	28.5	V.00	91.9	20.1			
	WIND DATA DIMECTION S	DEGREES (TN)	223+3	228•4	232.9	236.3	241.0	242.5	243.1	243.6	245.6	242.7	245.4	241.0	242.0	242.9	243.8	544.0	243.4	242.5	225.7	80.6	7.5.7 7.5.5	72.0	71.1	70.0	h•60	69.5 1	/ 9/	201.3	250•0	228-9	220.5	0.000	¥•227	218.4			
JATA Lu JS Ont'	SPEFU OF SOUND	KNOTS	5A7.0	5A7.3	548.0		500.3			592.5	593.2	503.6	1 400	504.0	505.5				507.3	597.8	598.2	598.7	508.	Sobor	59H.H	598.9	598.9	548.9	948°U	899.0	549.1			3.69.	509.2	599.3	549.3	599.3	599.4
UPPER AIR DAT 0900020214 WHITE SANDS TABLE 7 CONT	DENSITY GM/CUBIC	ME TER	37.2	36.3	35.4	34.5	30.0	32.0	31.3	30.5	8.62	1.62	700	27.1	26.4	25.8	25.2	24.6	24.1	23.5	23.0	22.4	21.5	21.0	20.5	20.1	19.7	14.2	14.8	18.4	1×.0	17.6	7.5	15.4	16.5	16.1	8.51	15.4	15.1
_	REL.HUM. PERCENT																																						
89•n0 FEET MSL 0918 HRS MST	TEMPERATURE R DEWPOINT	S CENTIGRADE		_					_									_								_	_												
89.nO FEET M 0918 HRS MSI	TE AIR	DEGREES	-46.1	-45.8	-45.3	/ • th th —	-43.6	-43.0	-42.4	8.1 h-	C•15	9.04		9.66-	-39.5	-39.5	-38.8	38.	-38.1	-3/•/	101	37.0	136.9	-36.9	-36.9	-36.8	-36.8	-36.8	-36./	-36.7	-36	-36.7	30.00	3000	30.0	36.5	30.0	30.0	130.4
.11TUDE 396	PRESSURE	MILLIUARS	24.2	23.7	23.2	22.	21.7	21.2	20.7	20.5	0 × 0	7.0	10 to	10.1	17.7	17.3	1/.0	10.0	707	6.01	0.01	7.0	14.5	14-2	13.9	13.6	10.3	13.0	14.0	12.5	14.2	14.0	7 7 7	****	7.11	0.11	•	•	70.3
STATION ALITTUDE 39 31 MAR. B1 ASCENSION NO. 214	GEOMETRIC ALTITUDE	MSL FEET	83500.0	84000.0	94200.0	85000.0	86000.0	86500.0	97000.0	67500.0	0.00088	0.0000	0.00000 HOLDO-0	900000	90500.0	91000.0	91500.0	92000.0	92500.0	93000.0	93500.0	0.00046	95000.0	95500.0	96000.0	96500.0	97000.0	97500.0	0.00086	98500.0	0.00066	99500.0	1000001	0.000001	0.000101	101500.0	102000-0	102500.0	102000.0

"EODETIC COOKDINATES 32-44043 LAT DEG 106-37033 LON DEG	INUEX OF HEFRACTION 1.000003 1.000003
EODE 1 32 32 32 32 32 32 32	#IND DATA -CTION SPEEU -ES(114) KNOTS
	U I KE E GKE
UPPFR AIN DATA 0400020214 WHITE SANDS TABLE 7 CONT	REL.HIM. DENSITY SPFFU OF T PERCENT GM/CUBIC SOUND NETER NNOTS II 14.8 599.4 14.5 599.6
UPPFR AIR DA' 0900020214 WHITE SANDS TABLE 7 CON	GMZCUB METER LICE
	REL.HUM PERCENT
ET MSL MST	TEMFCRATURE AIR DEWPOINT DEGRÉES CENTIGRADE -36.4 -36.1
3989.00 FEE1 MSL 0918 HRS MST 14	1EM A1R DEGHEES -36.4 -36.1
-IITUDE 39 10. 214	PRESSURE MILLIDARS 10.0 9.8 9.6
STATION ALITTUDE 3 31 MAR. 81 ASCENSION NO. 214	6EUMETRIC PRESSURE ALTITUE MSL FEET MILLIDARS 103500.0 10.0 104500.0 9.6

	GEODETIC COOKIDINATES	32.40043 LAT DEG	106.37033 LON DEG
A.ANDATORY LEVELS	0.900020214	WHITE SANUS	TABLE 8
	STATION ALIITUDE 3989.00 FEET MSL	31 MAR. 81 091A IRS MST	ASCENSION 140. Z14

DEGREFS CENTIGRADE DEGREES(TN) 11.9 -5.1 30. 336.0 8.3 -6.8 33. 295.9 4.3 -10.8 32. 295.9 -2.9 -20.4 20. 275.2 -12.2 -20.4 17. 206.8 -12.2 -32.6 10. 202.5 -17.5 -40.6 18. 257.7 -46.1 -56.1 248.9 -56.1 -56.1 248.9 -56.1 -56.1 248.9 -56.1 -26.1 248.9 -56.1 -27.7 -57.7 10.** 253.9 -61.0 -25.3 240.8 -57.9 -20.8 240.8 -57.5 -20.8 22.4 -57.5 -20.8 22.4 -46.5 -20.8 24.6 -37.0 -36.4	040	NTIAL	TEM,		KFI .HUM. PEHCENT	WILD	A
11.9 -5.1 30. 336.0 8.3 -6.8 33. 295.9 -2.9 -20.4 20. 275.3 -7.4 -28.4 17. 273.2 -12.2 -32.6 10. 265.5 -17.5 -37.2 16. 260.3 -22.9 -40.6 18. 257.3 -46.2 -45.7 10.** 257.3 -55.3 -60.1 248.3 -56.4 -55.3 -60.1 22.9 240.8 -57.9 -60.1 22.9 -60.1 22.9	<u>+</u>		DEGREFS	CENTIGRADE		DEGREES (1	IN) KNOTS
8.3 -6.6 33. 295.9 -2.9 -20.4 20. 275.3 -1.4 -28.4 17. 205.4 -12.2 -32.6 10. 205.5 -17.5 -37.2 16. 205.3 -20.1 -40.5 18. 257.3 -46.2 -40.5 18. 257.3 -46.2 -40.5 18. 257.3 -46.1 -56.1 248.9 -56.1 -56.1 248.9 -56.1 -56.1 248.9 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 240.8	5005	5.	11.9	-5.1	30.	336.0	11.9
4.3 -10.8 32. 280.2 -2.9 -20.4 50. 275.3 -1.4 -28.4 17. 20.25.5 -12.2 -32.6 10. 20.3 -12.2 -37.2 16. 20.3 -20.9 -40.6 18. 257.7 -20.0 -45.7 18. 257.7 -55.3 -55.3 -40.6 18. 257.3 -60.1 -56.1 248.9 -50.1 -56.1 248.9 -50.2 -50.2 -61.0 -61.0 -61.0 240.8 -50.2 -61.0 -61.0 -61.0 -61.0 240.8 -50.8 -50.8 -50.8 -50.8 -40.6 -50.8 -50.8 -50.8 -50.9 -60.9 -60.9 -5	999	•	8.3	-6.A	33.	295.9	21.3
-2.9 -20.4 20. 275.3 -2.9 -24.6 17. 273.2 -12.2 -32.6 10. 262.5 -17.5 -37.2 16. 260.3 -22.9 -40.6 18. 257.7 -46.2 -45.7 18. 257.3 -55.3 -46.7 18. 257.3 -56.1 -26.1 248.9 -56.1 -26.1 248.9 -56.1 -25.2 -57.9 -25.2 -61.0 -27.0 240.8 -57.5 -27.1 -57.5 -27.1 -57.5 -27.1 -57.5 -27.1 -57.5 -27.1 -57.6 -27.1	639	•	4.3	-10·B	32.	280.2	27.0
-2.9 -24.6 17. 273.2 -7.4 -28.4 17. 26.9 -12.2 -32.6 16. 260.3 -22.9 -40.6 18. 257.7 -29.0 -45.7 18. 257.3 -46.2 -45.7 10.** 253.1 -56.1 -27.7 -57.7 10.** 248.9 -56.1 -255.2 -56.1 -255.2 -56.1 -255.2 -56.1 -255.2 -57.9 -255.2 -57.9 -255.2 -57.9 -255.2 -57.9 -255.2 -57.9 -255.2 -61.0 -255.2 -55.0 -255.2 -5	10223	•	2	-50.4	20.	275.3	32.9
-7.4 -28.4 17. 266.8 -12.2 -32.6 16. 262.5 -17.5 -40.6 18. 267.7 -29.0 -45.7 18. 257.3 -55.3 -46.2 248.3 -56.4 -57.9 248.9 -60.1 -56.4 -57.9 -61.0 -59.2 240.8 -57.9 -50.5 -61.0 -61.0 -59.2 -61.0 -61.0 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0 -50.6 -59.2 -61.0	12161	٠	-2.9	-24.6	17.	273.2	34.9
-12.2 -32.6 10. 262.5 -17.5 -17.2 16. 260.3 -22.9 -40.6 18. 257.7 -22.9 -40.6 18. 257.7 -40.6 18. 257.3 -40.6 18. 257.3 -40.6 18. 257.3 -40.6 1 -55.3 -40.6 -50.5 -50.5 -50.5 -50.5 -50.5 -50.5 -50.5 -50.5 -40.6 -50.5 -40.5	14223.		4.7-	-28.4	17.	206.8	37.4
-17.5 -37.2 16. 260.3 -22.9 -40.6 18. 257.7 -29.0 -45.7 18. 257.3 -46.2 -45.7 10.** 253.1 -46.2 -57.7 10.** 253.1 -56.1 244.9 -56.1 244.9 -57.9 244.9 -57.9 244.9 -57.9 244.9 -57.9 2240.8 -57.5 22.0 -57.5 22.0 -46.5 22.0 -46.5 243.0 -57.6 227.1 -50.6 227.1 -50.6 227.1 -50.6 227.1 -50.6 227.1 -50.6 227.1 -50.6 32.0 -50.6	16426.		-12.2	-32.6	10.	262.5	39.4
-22.9 -40.h 18. 257.7 -29.0 -45.7 18. 257.3 -46.2 -45.7 10.** 253.1 -46.2 -46.7 10.** 253.1 -56.1 -248.3 -56.1 -248.9 -56.1 -248.9 -57.9 -248.9 -57.9 -253.9 -61.0 -253.9 -61.0 -253.9 -61.0 -253.0 -57.5 -27.1 -52.6 -227.1 -52.6 -227.1	18792.		-17.5	-37.2	16.	260.3	46.5
-29.0 -45.7 18. 257.3 -46.2 -46.7 10.** 253.1 -46.2 -48.3 -55.3 -48.9 -56.1 -247.1 -56.1 -247.1 -56.4 -253.9 -60.1 -248.9 -57.9 -248.9 -61.0 -253.9 -61.0 -240.8 -59.2 -27.1 -59.2 -27.1 -50.6 -227.1 -50.6 -227.1	21356.		-22.9	-40.1	18.	257.7	44.2
-37.7 -57.7 10.** 2553.1 -46.2 -57.7 10.** 248.3 -56.1 -56.1 -26.1 -26.4 -57.9 -60.5 -60.5 -60.5 -60.5 -60.5 -60.5 -60.6 -50.6	24152.		-29.0	-45.7	18.	257.3	57.5
248.3 247.1 248.9 248.9 255.2 255.2 240.8 227.1 227.1 264.0 92.0 78.2	27229.		-37.7	-57.7	10.**	253.1	60.5
247.1 248.9 255.2 255.2 255.2 245.2 240.8 240.8 227.1 264.0 92.0 212.9 78.2	30648.		-46.2			248.3	61.0
248.9 245.7 255.2 255.2 245.9 240.8 233.0 227.1 264.0 92.4 212.9 78.2	34545.		-55.3			247.1	0.49
245.7 255.2 255.2 253.9 240.8 240.8 223.0 227.1 264.0 92.4 78.2	39158.		1-09-			548·9	8n.2
255.2 253.9 245.2 240.8 240.8 223.0 227.1 264.0 92.4 245.8	41921.		-56.1			245.7	62.3
253.9 245.2 245.2 240.8 233.0 227.1 264.6 92.4 245.8	45141.		-56.4			255.2	62.6
245.2 240.8 240.8 233.0 227.1 264.6 92.4 245.9 78.2	48935.		-57.9			253.9	56.1
240.6 240.8 233.0 227.1 227.1 92.4 92.4 78.2	53517.		-60.5			242.2	34.9
240.8 233.0 227.1 227.1 264.0 92.4 212.9 243.8	58076.		-61.0			240.8	9.11
-59.2 233.0 -57.5 227.1 -52.6 227.1 -50.8 92.4 -46.5 212.9 -41.5 243.8 -37.0 78.2	60795		-61.4			240.8	48.7
227.1 264.0 92.4 212.9 243.8 78.2	63938.		-59.2			233.0	28.3
264.0 92.4 212.9 243.8 78.2	. 169ta		-57.5			227.1	8.0
92.4 212.9 243.8 78.2	72378.		-52.6			264.6	25.4
212-9 243-8 78-2	78513.		-50.8			92.4	10.7
243.8 78.2	82450.		-46.5			212.9	4.7
-37.0 78.2 -36.4	87358.		-41.5			243.8	20.5
-36.4	93827		-37.0			78.2	H•7
	103041.		-36.4				

** AT LEAST ONE ASSUMED RELATIVE HU. IDITY VALUE WAS USED IN THE INTERPOLATION.

STEAT ICANT EFVEL DATA	09001,001,	1,6-37	TABLE 9
	STATION ALITIDE 4051-37 FLET MSL	31 MAR. 81 0755 HRS MST	ASCENSION NO. 16

GEUDETIC COORDINATES 32-40175 LAT DEG 106-31232 LON DEG

KEL . HUM.	PERCENT	34.0	32.0	52.0	•	36.0	0.64	36.0	29.0	27.0	21.0	70.0	19.0	19.0	S		Ġ	•																							
I WPERATUME	DEWPUINT CENTIGKANF	-1.9	-4.3	-5.1	-5.5	7.9-	-7.6	-11.6	-10.1	-18.8	-21.9	4.75-	-35.7	٥	-41°9	-43.0	9.44-	L. 44-																							
it MPt	AIR DEGKEES	13.6	11.8	10.9	-	7.4	2.0	1.9	₽••	-2.4	-2.1	*8.6	•	•	•	-30.5	•	-38.8	-41.3	-	•	•	•		-59.2	-58.3	-59.0	-57.3			•	•	3:	•	•	-63.3	9.09-	-61.6	-58+3	9	-61.6
E GEUMETHIC	ALTITUDE S MSL FEET	4051.4	4274.5	0	ດໍ	01.	8942.5	53	ũ	104	11761.9	15100.0	8808.	19850.5	23147.0	24170.2	54844.9	27428.8	28313.3	30676.2	33306.1	34586.2	36634.6	38104.1	39206,7	40159.4	40664.2	41228.4	42835.6	43393.3	45213.9	46392.5	50867.2	200	5 / c	8	•	60862.6	4110.	837.	67423.6
PRESSURE	MILLIBARS	880.3	673.2	•	•	•	•	•	•	678.4	0.099	579.8	200.0	479.2	417.8	400.0	388.6	347.2	333.8	300.0	265.6	250.0	226.6	211.0	200.0	191.0	•		168.0	•	150.0	-	114.2	0	•		÷	ċ	ė		20.9

FEET MSL	RS MSI	
STATION ALIITUDE 4051.37 FEET MSL	0755 HRS MST	φ
AL 1 I TUDE	18	ASCENSION NO. 1
STAFION	31 MAR. 81	ASCENS1

UATA	_
SIGNIFICANT LEVEL 090012010	LC-37 TABLE 9 cont

6-EODETIC COOKDINATES 32-40175 LAT UEG 106-31232 LON DEG

REL.HUM. PERCENT TEMPERATURE AIR DEWPOINT DFGREES CENTIGHAIF PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

67790.1 70851.9 72218.6 73859.1 76655.4 83336.6 86048.7 87541.3 97541.3 93425.9 96284.1 98409.6 103341.1

50.00 100.00

1550.1 1553.4 1553.4 1550.6 1550.6 1550.6 1560.4 1560.4 1560.4 1560.4 1560.4 1560.4 1560.4

18

	#	051.37 FEET MSL	ET MSL	-	UPPER AIR DAT 0900180018	DATA In		GEODET1C	C COUMDINATES
31 MAR. 61 ASCENSION 140	. 16	0755 HRS MST	ISI		LC-37 TABLE 10			32. 106.	32.40175 LAT DEG 106.31232 LON DEG
GEUMETRIC	PRESSURE	TEM	TEMPERATURE	REL. HIM.	DENSITY S	SPFFU OF	.INI. DATA	F.A	INUEX
AL 11TUDE		AIK	DEWPOINT	PERCENT	GM/CUBIC	SOLINE	DIRECTION	SPEEU	0.6
MSL FEET	MILLIDARS	DEGRÉES	CENTIGRADE		METER	KINOTS	DEGREES (IN)	KNOTS	HEF HACT ION
4051.4	860.3	13.6	-1.9	34.0	1067.0	6.049	350•0	0.9	1.000262
4500.0	866.0	1.1.2	6.4-	32.0	1054.1	657.5	345.3	7.2	1.000256
5000.0	820.4	11.0	-5.4	31.0	1040.7	657.3	341.6	8.6	1.000251
5500.0	834.9	10.1	-5.7	32.3	1025-1	656.2	338.9	10.1	1.000247
0.0009	819.7	1.6	0.9-	33.6	1004.8	655.1	320.5	10.9	1.000243
6500.0	804.8	8.5	5.9 -	34.9	8.466	6.454	297.5	13.1	1.000240
7000.0	790-1	7.1	-6.7	36.6	980.2	655.8	289.B	16.8	1.000236
7500.0	72.5		-6.8	39.8	960.6		286.2	20.5	1.000233
0.0008	77	0 f	0.7.	0.00	953.3		200.1	23.A	1.000230
8200.0	741.0	2.0	0.0	7.04	1.0.4V	648.2	270-0	200	1 - 000227
96000	7.4.7	7-1	7.0 7.0	40.4	9110		278.1	00 K	
0.00001	700.0	2	15.0	30.7	894.7	5.446	277.1	3000	1.000210
10500.0	692.7	-1.0	-17.0	28.3	885.9	643.0	277.2	29.1	1.000206
11000.0	9.619	-2.3	-18.7	27.1	873.3		275.6	29.1	1.000202
11500.0	660.7	-2.6	-20.7	23.2	857.8		273.2	29.6	1.000197
12000.0	653.9	-3.1	-22.3	20.9	843.1	4.044	270.7	31.9	1.000193
12500.0	641.4	0.1-	-23.2	20.8	824.7	639.3	269•3	34 • 3	1.000190
13000.0	629.0	0.4-	-24.0	20.6	816.4	6.36.2	269•0	36.7	1.000186
13500.0	610.9	-5.8	8.47-	20.5	803.4	_	208.2	37.5	1.000183
14000.0	605.1	1.9-	-25.6	20.3	790.6		267.4	37.7	1.000180
14500.0	595.5	2.7-5	-26.5	20°5	778.0		266.4	3.85 1.85 1.85 1.85 1.85 1.85 1.85 1.85 1	1.000177
15000.0	570.6	3 4	-27.5	20.0	753.6	_	265.5	38.9	1.000174
15000-0	2 7 10	9.61 9.01	1,00°=	10.8	742.5	0.36.0	26.30	18.0	1.000171
16500.0	540.0	-12.1	-30.6	19.6		629.6	260.7	38.7	1.000166
17000.0	537.4	-13.3	-31.7	19.5	720.3		259.5	39.7	1.000163
17500.0	520.8	9.41-	-32.8	19.4	704.5	9.929	258∙8	41.1	1.000160
18000.0	510.4	-15.8	-33.9	19.2	696.8	625.0	258.7	45.6	1.000158
18500.0	500.5	-17.0	-35.0	19.1	688.4	423.5	258.7	44.2	1.000155
19000.0	490.1	-16.1	-35.9	σ.	677.4	622.3	258.3	•	1.000152
19500.0	480.1	-18.7	-36.5	0.61	665.4	621.5	257.1		1.000150
0.00002	7.07	17.0	10/6.	29.0	2 · hcq	100 ·	257.0	X • O	/*T000 ·
202000	000	-21.0	£	700	2 · h · 0		8.167	•	C#10000 .
0.00012	0.00	-22.3	0.00	7.77	0.400	2	0.007	000	5270001
0.00512	† (* * * * * * * * * * * * * * * * * * *	-23.1	5.65-	0.00	9-179	0 .	7.667	•	0210001
22000.0	430.2	-25.0	1.04-	22.9	615.1	•	7.602	n .	1.000138
22500.0	Z-62+	S	5.0±-	23.6	605.7	o.	•	•	1.000136
23000.0	2	-27.7	-41.7	•	÷ 1	510.c	٠,	51.5	. 100u
23500.0	411.6	-28.9	-42.3	26.0	587.0	6.18.9	255.0	52.8	1.000132

GEODETIC COOKDINATES 32-40175 LAT DEG 106-31232 LON DEG	INDEX	OF REFRACTION	1.000129	1.000127	1.000125	1.000123	1.000121	1.000119	1.00011/	1.000115	1.000113	1110001	1.000109	1000100	C01000-1	1000103	101000	1000100	860000	#60000 · I	1 • 000093	1.00001	1.000089	1.000088	1.000086	1.000084	1.000083	1.000081	1.00007	1.0000.1	1.000075	1.000073	1.00007	1.000070	1.000068	1.000066	1.000064	1.000063	1.00001	1.000059	1.000058
64 ODE T10	4 1	SPEED	54.0	54.9	55.A	56.8	9.76	58.1	7.80	29.4	† · 0 · 0	\$ · TQ	62.6	63.5	¥•00	0.00	000	200	63.5	64.8	999	68.9	71.3	73.6	74.7	74.4	73.8	72.9	72.3	2,57	2.5	74.7	76.2	77.7	78.A	78.7	78.5	78.0	77.4	78.9	80.5
	WINU DATA	DIRECTION, DEGREES(TN)	253.1	251∙6	550.9	250•3	249.7	249.5	1.047	9-7-52	240.5	4.047	244.5	0.440	7.442	2424	24.7.5	C•/47	24/11	247.6	247.5	247.5	247.6	247.6	247.4	546.9	246.3	245.5	9.150	7.447	8.0.7	74047	242.8	7-11-7	5.442	245.3	545.6	245.1	242·8	246.6	547.4
DaTa 116 Cont'	SPFFU OF	SOUND	4.709	6n6.2	605.0	603.2	601.5	549.7	507.9	596.1	594.3	7.760	591.5	590.2	0.44°C	5A7.7	3.0XC	584.b	5A2.9	579.6	578.0	576.7	575.4	574.1	572.9	571.7	570.4	569.7	36.9.1	256.0	568.9	569.6	570.2	570.8	570.4	571.4	572.9	573.A	574.7	575.0	574.2
UPPER AIN DAT 0900180016 LC-37 TABLE 10 CON	DENSITY	GM/CUBIC METER	577.4	567.4	557.6	544.8	540.1	531.5	563.5	514.9	306.6	1.864	0.684	400.5	*****	402.4	7.50	9.044	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	424.0	416.4	408.6	4000	393.1	385.5	377.9	370.6	362.7	7.400	7 · C * F	1.400	529.3	520.7	312.3	305.3	297.0	28ו5	280.8	273.3	260.6	261.0
-	REL.HUM.	PERCENT	27.5	27.0	26.2	27.0	27.8	28.6	29.5	27.6**	10.0**																														
T MSL MST	TEMPERATURE	DEWPOINT CENTIGRADE	-42.8	9.64-	6.44-	6.54-	6•94-	6.74-	7.01	-50.6	9.66-							•																							
51.37 FEET MSL 0755 HRS MST	TEMF	AIR Degrées	-30.1	-31.0	-32.0	-33.4	-34.8	-36.2	13/00	139.0	1000	- T - T	0 • Z ti -	0.00	0 4 4 5 1	-145.7			1 to 0.00	-51.8	-53.0	-54.0	-55.0	-56.0	-56.9	-57.B	-58.8	-59.5	0.60	7.00-	K • KG	100	158.4	-58.5	-28.8	-58.0	-26.9	-56.2	ഗ	ຂ	-55.9
rUOL 40	PRESJURE	MILLIUARS	402.9	394.4	380.0	377.7	369.5	361.5	0.000	1.040	0.000	0.400	323.0	2000		205.5	25000	0000	272.7	269.4	263.2	257.0	251.0	245.1	239.3	235.6	228.1	222.6	2110	207-0	20.00	202.0	20161	192.5	6./87	185.4	179.1	174.8	170.7	166.7	162.8
STATION ALFI 31 MAR. 61 ASCENSION NO	GEUMETHIC	ALTITUDE MSL FEET	24000.0	24500.0	25000.0	25500.0	26000.0	26500.0	27,000.0	2/300.0	0.0000		0.00062	40000	40500	3,000.0	31500.0	0.00016	32500.0	33000•0	33500.0	34000.0	24500.0	35000.0	35500.0	50000.0	36500.0	0.00075	0.0000	30000	0.00004	0.0000	0.00560	0.00004	0.0000+	41000.0	1500.	\sim	2500.	43000.0	43500.0

** AT LEAST ONE ASSUMED RELATIVE HU...IDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE	UDE 4	051.37 FEET MSL 0755 HRS MST		UPPER AIR DAI 0900140016 LC-37	24 TA		E0DE11	HEODETIC COUNDINATES 32+40175 LAT DEG
ASCENSION	.05 .05			TABLE 10 c	cont'		106.	
GEOMETRIC	PRESSURE	MPE	REL.HUM.		SPFFU OF	WIND DATA	4 L	INUEX
ALTITUDE		AIR	PERCENT	6M/CUBIC	SOLIND	DIRECTION	SPEED	OF
MSL FEET	MILLIBARS	DEGREES CENTIGRADE		METER	NNOTS	DEGREES (TN)	KNOTS	REFRACTION
•	158.9	-55.9		254.9	574.2	24.8 . 5	81.3	1.000057
44500.0	155.2	-55.9		244.9	574.2	249.7	82.0	1.000055
45000.0	151.5	-55.9		243.0	574.2	250.5	80.2	1.000054
45500.0	148.0	-56.0		237.3	574.1	251.4	77.1	1.000053
46000.0	144.5	-56.1		231.9	574.0	252•0	73.9	1.000052
46500.0	14161	-56.5		226.7	573.6	252.2	70.7	1.000050
47500.0	7.75	-57.7		212.	572.8	3.25 20.25 2	1.19	1.000049
48000.0	131.2	-58.3		212.7	641.0	251.6	000	1.000048
48500.0	128.1	-59.0		208.3	570.1	251.1	63.0	1.000046
0.00064	125.0	-59.6		203.9	549.3	250.7	61.7	1.000045
49500.0	122.0	-60.3		199.7	568.4	250.1	60.4	1.000044
200000	119.1	-61.0		195.5	567.5	248·8	58.5	1.000044
0.0000	7171	9.19		191.4	546.6	247.3	56.0	1.000043
0.00010	110.7	1.79		107.3	566.0	242.5	54.8	1.000042
52000.0	0.40	162.0		182.6	566.1	243.4	24.4	1.000041
52500.0	105.4	1010		174.I	566.3	242+3	55.1	1.000040
53000-0	102.9	2.70		170.0	246.1	1.047	7.70	1.000039
53500.0	100.4	-62.8		166.2	565.5	744.C	61.7	1.000038
	6.16	-63.1		162.4	564.6	546.9	63.3	1.000036
24500.0	95.5	-63.2		158.6	564.4	248.1	64.8	1 • 000035
55000.0	93.2	-62.9		154.5	564.9	249.3	66.2	1.000034
0.00555	91.0	-62.5		150.5	565.4	250.2	66.5	1.000034
26000.0	80.08	-62.2		146.6	545.8	251.2	66.8	1.000033
52000.0	9 4 4	£0101		142.8	566.3	251.3	64.3	1.000032
47500.0	4	-41.0		1.961	266.7	0.162	00.0	1.000031
58000.0	80.5	-60-8		132.1	いたい	249.5	56.1	0000001
58500.0	78.5	7-09-		128.8	567.9	248+5	55.5	1.000029
29000.0	7.97	-60.9		125,8	567.6	248.2	56.2	1.000028
59500.0	•	-61.1		122.9	567.4	50.20	57.2	1.000027
0.0000	•	-61.3		120.0	547.1	247.7	57.4	1.000027
60500.0	71.2	-61.5		117.2	546.8	247.5	57.4	1.000026
0.00110	•	2910		114.4	566.8	247.3	56.8	1.000025
0.00010	6: 0	1910		111.4	547.5	540.0	53.9	1.000025
0.000.0	7.59	5.001 5.001		104.5	568.2	240.0	9000	1.000024
		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		100	0.000	1.047		1.0000
3500.		0.00		\$	014.0	2000	2000	1 00000
	,	· - 50		7.11.4	2.0/0	7,113	7.10	1.000022

STATION AL 31 MAR. 81	TUDE 40	51.37 FEET MSL 0755 HRS MST		UPPER AIN UATA 09001A0016 LC-37	04 FA 16		6E00ETT	GEODETIC COORDINATES 32-40175 LAT DEG
SCENSION NO	. 16			TABLE 10	cont'		106.	106.31232 LON DEG
GEOMETRIC ALTITUDE	PRESSURE	TEMPERATURE AIR DEWPOINT	REL.HUM. PERCENT	DENSITY GM/CUBIC	SPEFU OF	WIND DATA	TA SPEED	INUE X OF
MSL FEET	MILLIBARS	S:		METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
0.00049	60.1	-58.4		91.5	570.9	240.0	25.0	1.000022
0.00540	56.7	-59.0		95.5	570.1	235∙8	18.9	1.000021
65000.0	57.3	-59.4		93.6		258.5	13.7	1.000021
0.00550	55.9	-60.8		61.7		224.5	11.6	1.000020
0.00099	24.6	-61.4		84.8		517.9	9.6	1.000020
66500.0	53.2	-61.5		87.6		213.7	8.7	
67000.0	52.0	-61.5		85.5		215.4	9.1	1.000019
67500.0	2000	-61.3		85.4		217.0	9.5	1.000019
68000.0	0 • 6 ±	-59.6		80.8		219.4	10.1	1.000018
66500.0	40.0	158.0 17.7		78.5		221.9	10.8	1.00001
0.00000	1 - 0 4	70 - 10 -		2.07	2.2/0	0.56.0	0.11	1100001
0.0000		1,000		2.5		229.7	200	1.00001
70500.0		154.5		6.69	_	232.6	13.4	1.000016
71000.0		-53.6		64.1		236.7	13.9	1.00015
1500.0	41.	-54+3		66.7	-	540.4	14.5	1.000015
2000.0	0.0	-55.1		65°4		243.8	14.6	1.000015
0.0002		154 ° 0		7.50		7.742	7.01 	1.00001
73500.0		-51.7		60.09	57.0 8.07.2	254.0	11.7	1.000014
74000.0		-50.6		54.3		259.4	10.4	1.000013
74500.0	30.4	-50.8		57.0		265.2	9.5	1.000013
75000.0	35.6	-50.9		55.7		266.7	8.8	1.000012
15500.0	34.0	-51.0		54+5		268.2	9. ¢	1.000012
76000.0	35.9	-51.1		53.3		269.5	9.0	1.000012
76500.0	N * 7 P	-51-3		52.		269.5	7.4	1.000012
0.000/	31.7	10101 11111		5 · O ·		2007 2007	£ ,	1100001
7.500.0	0.05	5165		R. 64	5AU.0	269.1	c :	1.00001
78500.0	200	5 to 5		47.5		276.11	. k	1.00001
0.00067	29.55	-51.0		4.92		786.7		1.00001
79500.0	28.9	-50.5		45.2		319.4	7.4	1.000010
80000	24.2	8.61-		0.11		24.1	1.5	1.000010
80500.0	27.6	0.67-		45.8		50.1	2.5	1.000010
0.00018	56.9	-48.3		41.7		58.7	3.5	1.000009
٠	20.3	-47.5		40.7		63.7	4.5	1.000009
82000.0	25.7	146.8		39.6		66.1	5.0	1.000000
٠	າ:	1.04		38.6		2.50	7. 0	1.000009
000		140.0		37.6	5A8	65.6	1.8	1.000008
•	•	F • + 31).4C	2AB.6	333.3	٠.	1.000008

GEODETIC COOMDINATE 32.40175 LAT ER 106.31232 LON OF	INDEX OF REFRACTION	1.000000	1.000007 1.000007 1.000007	1.000007 1.000007 1.000006 1.000006	1.000006 1.000006 1.000006	1.000006 1.000006 1.000005	1.000005 1.000005 1.000005 1.000005 1.000005	1.000004 1.000004 1.000004 1.000004 1.000004	1.000004 1.000004 1.000004 1.000003 1.000003 1.000003
, \$E ODE T 32 • 106 •	SPEED KNOTS	3.0	9.4 10.1 10.6 9.3	8.0 6.1 5.1	ທີ່ທີ່ ເຄື່ອນ ເຄື່ອນ	444W 444W	10010100 1000000	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7.37 7.38 10.1 10.1 13.38
	WIND DATA DIRECTION S GEGREES(IN) K	254•7 252•9 252•3	252.2 252.1 252.0 251.1	250.0 246.5 245.5 241.9	237.7 234.4 231.4	228.2 223.4 216.2 207.0	194.5 176.1 156.7 130.1 122.1	118.3 124.1 139.5 154.5 166.4	179.0 182.6 186.0 186.0 185.2 187.2
UaTa Ole Cont'	SPEFU OF SOUND KNOTS	548.2 547.8 587.4	587.1 586.7 587.3 588.0	5A9.5 5A9.5 540.3 541.1	592.0 592.8 593.6	594.4 595.3 596.1	50 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	509.7 509.7 509.1 508.7 508.7	598.7 598.7 598.7 598.7 598.7 598.7
UPPER AIR DAT 0900140016 LC-37 TABLE 10 cont	DENSITY S GM/CUBIC METER	35.9	33.7 32.9 32.1 31.8	30.6 24.8 29.1 28.4	27.7 27.0 26.3	25.7 25.0 25.0 25.0	22.72 22.72 23.73 23.74 23.75	19.3 19.3 19.0 18.6 18.6 17.4	17-1 16-7 16-3 16-3 15-0 15-0 15-0
	REL.HUM. PERCENT								
EET MSL S MST	TEMPERATURE R DEWPOINT EES CENTIGRADE								
4051.37 FEET MSL 0755 HRS MST 6	TEMI AIR DEGREES	145.2 145.5 145.8	-46.1 -46.4 -45.9	144.0	147.0	139.0 139.1 139.0 149.1	137.1 136.6 136.6 136.0 135.7	135.4 135.4 135.6 137.0 137.0	-37.0 -37.0 -37.0 -37.0 -37.0
1 ^{UDE}	PRESSURE MILLIBARS	22.5	21.9 21.4 21.0 20.5	20.0 19.6 18.2	17.5	10.8		. ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0.0111100000000000000000000000000000000
STATION ALTITUDE 31 MAR. 81 ASCENSION NO.	GEUMETRIC ALTITUDE MSL FEET	84500.0 84500.0 85000.0	85500.0 86000.0 86500.0 87000.0	87500.0 88000.0 88500.0 69000.0	90200.0 90200.0	910000 9150000 9250000	93500.0 94000.0 94500.0 95000.0 95500.0	96500.0 97000.0 97500.0 98500.0 99500.0	1000000 100500.0 101000.0 101500.0 102000.0 102500.0 103000.0

"EODETIC COURLINATES 32.40175 LAT DEG 106.31232 LON DEG	A INDEX SPEEU OF KNOTS REFRACTION	18.3 1.000003	20.4 1.000003	20.4 1.000003	20.4 1.000003	20.4 1.000003	20.0 1.000003	19.4 1.000003	19.0 1.000003	19.6 1.000003	21.1 1.000003	22.7 1.000003	23.9 1.000003	23.8 1.000002	24.0 1.000002	24.3 1.000002	1.000002	1.000002	1.000002
,	WIND DATA DIRECTION SPI DEGREES(IN) KN	177.8					178.2			184.4					189.5	194.3			
AIA 6 ont'	SPEFU OF SOUND KNOTS	598.6	598.5	598.5	598.4	598.3	598.3	548.2	598.2	598.1	598.0	598.0	597.9	597.8	597.8	597.7	597.7	598.4	549.2
UPPER AIR UATA 0900180016 LC-37 TABLE 10 cont'	DENSITY S GM/CUBIC METER	14.3	14.0	13.7	13.4	13.1	12.9	12.6	12.3	12.1	11.8	11.5	11.3	11.1	10.8	10.6	10.4	10.1	6.6
-	REL.HIM. PERCENT																		
4051.37 FEET MSL 0755 HRS MST 16	PRESSURE TEMPERATURE AIR DEWPOINT MILLIUARS DEGREES CENTIGRADE	-37-1	-37-1	-37.2	-37.2	-37-3	-37.3	-37.4	-37.4	-37.5	-37.5	-37.6	-37.6	-37.7	-37.7	-37.8	-37.8	-37.2	-36.6
	PRESSURE AILLIDARS	7.6	9.5	5. 5	7.5	6°2	8.7	e•5	α•3	8.2	O .	7.8	9./	7.5	7.3	7.2	0.7	6• 0	4.0
STATION ALIITUDE 31 MAR. 81 ASCENSION NO.	GEUMETRIC ALIITUDE MSL FEET M	104000.0	104500.0	105000.0	105500.0	106000.0	106500.0	107000.0	107500.0	108000.0	108500.0	109000.0	109500.0	110000.0	110500.0	111000.0	111500.0	112000.0	112500.0

GEODETIC COORDINATES 32.40175 LAT DEG 106.31237 LON DEG	WILD DAFA DIRECTION SPEED	DEGREES(IN) KNOTS	5 H.7									7 54.3													8 13.7			1 8.0		0 14.8	
	DIRE	UE GRE	341.5	294.1	283.2	277.2	270.1	566·9	261.1	258.5	258.9	252.7	248.0	245.8	247.6	243.6	245.7	250.8	250.7	545.6	249.1	247.4	239.9	218.1	246.8	277.9	65.0	250 • 1	157.4	181.0	
EVFI S	RFI .HUM. PERCENT		31.	35.	46.	.66	21.	20.	20.	19.	22.	28.	30.																		
HANDATORY LEVFIS 09001A0016 LC-37 TABLE 11	TEMI-ERATURE R DEWPOINT	CENTIGRADE	-5.5	-6.5	£-7-	-16.1	-22.6	-26.0	-30.4	-35.7	-39.1	143.0	**6 *																		
7.	TEM!	S	11.0	7.9	3.5	۳. ا	4.6	-7.0	-11.9	-17.8	-23•3	-30.5	-38•3	-45.9	-55.2	-59.2	-56.3	-52.9	-59.6	-62.9	-60.7	-61.6	-58.4	-50.1	-54.6	-51.8	-45.9	9.44-	-36.8	-37.0	-37.8
T MSL 451	PRESSURE GEOPOTENTIAL	FEET 0	5009	6658.	8390.	10215.	12146.	14208.	16415.	18782.	21344.	24130.	27198.	30616.	34512.	39114,	41873.	45094	48875	53411.	57934.	60655.	63813.	67537.	72194.	78321.	62251.	87132.	93560.	102780.	110861.
4051.37 FEET MSL 0755 HRS MST 16	PRESSURE G	MILLIBARS	A50.0	800.0	750.0	0.007	650.0	0.009	550.0	200.0	450.0	0.004	350.0	300.0	250.0	200.0	175.0	150.0	125.0	100.0	0.08	0.07	0.09	50.0	0.04	30.0	25.0	20.0	15.0	10.0	7.0
STATION ALTITUDE SI MAR. BI ASCENSION NO.																															

STATION ALTITUDE 4126.59 FEET MSL 31 MAR. 81 0655 HRS MST ASCENSION NO. 53	иSL 5 Т	SIGNIFIC 09 HOL TAB	SIGNIFICANT LEVEL D 0900010053 HOLLOMAN TABLE 12	UATA	GODETIC COORDINATES 32.88865 LAT DEG 106.09965 LON DEG
ABI 15 S AVID	SE GEOMETRIC	TFMPF	TEMPERATINE	HIM.	
		7 01 4	NATIONE DEMOCRAL	DEPCENT	
MILLIBARS	S MSL FEET	DEGREES	CENTIGRADE		
876.4	4126.6	5.6	-5.7	0.44	
866.2	4444.3	11.3	-2.8	37.0	
850.0	4961.3	10.6	-3.8	36.0	
700.0	10156.8	-1.6	-11.1	48.0	
₩ 999	11360.3	-3.9	-17.1	35.0	
659.0	11727.8	-3.7	-21.8	23.0	
629.3	12920.1	-5.7	-25.0	20.0	
0.005		-19.1	-33.3	27.0	
472.0	•	-21.0	-36.2	24.0	
0·00th		-31.3	-45.B	31.0	
388.4	24725.8	-32.1	-42.1	36.0	
4.450		9.04-	F+0+-	38.0	
327.9	28583.0	9.04-			
0.000		-45.7			
250.0	M) H	-54.7			
232.8		-57.8			
228.0	36401.2	-56.2			
185.6		150.6			
171.5	42317.7	-58.0			
163.8	43245.4	-59.0			
162.5	43411.1	-56.7			
150.0	45082.3	-57.1			
128.0	48372.4	-59.6			
117.2	50190.8	-59.6			
1.601	51674.6	-57.8			
0.001	53478.6	-59.8			
2.10	F 66 F 6 7	9.29			
0.62	C•20/00	100			
03.0 55.4	62928.1	2.84.1			
	111000	200			
C	70504.4	-52.6			
3.00	72859.9	155.1			
9.66	76152.0	-50.1			
30.0	78593.2	-51.4			
22.8	84580.5	9.44-			
20.0	87475.2	6.54-			
17.0	91076.9	-43.3			

TABLE 13 TEMPERATURE REL.HUM, DENSITY SHEFU OF WIND DATA AIR DEWPOINT PERCENT CM/CUBIC SOUND 5.6 -5.7 44.0 1093.4 651.0 15.4 11.2 -2.9 36.9 1105.3 655.4 257.1 11.2 -3.9 36.9 1105.3 655.4 257.1 10.5 -3.9 36.9 1105.3 655.4 257.0 16.6 5.8 -6.5 40.7 20.0 20.0 20.0 20.0 20.0 20.0 3.5 -4.5 37.2 1102.3 655.4 257.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 2	A 4 5	TUDE 41	26.59 FEET M 0655 HRS MST	ET MSL MST	-	UPPER AIR DAT 0900010053 HOLLOMAN	DATA 53		GEODETI	GEODETIC COOKDINATES
FEMPERATURE REL, HUM, DENSITY SFEED OF WIND DDATA ALR DEWPOINT PERCENT GM/CUBIC SOUND DIRECTION SPEED OF NAME OF STATES ALL SOUND SPEED OF STATES ALL STATES ALL SOUND SPEED OF STATES ALL ALL STATES ALL STATES ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	SCENSION NO. 5	າ				TABLE 13			106.	S 0
Services Centrolly Freeze Control Description of the Control of th	PRESSU	Ä	TEM	PERATURE	REL . HUM.	DENSITY	SPEED OF	WIND DA	14	INDEX
5.6 -5.7 44.0 1093.4 651.0 30.0 10.5 -2.9 35.9 1056.7 651.0 35.0 10.5 -2.9 35.9 1056.7 651.0 35.0 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 35.9 10.5 -2.9 41.9 35.9 10.5 -2.	MILLIBAR	RS	DEGREES				KNOTS	DEGREES (TN)	KNOTS	OF REFHACTION
11.2 -2.9 36.9 1056.7 657.7 12.4 10.5 -2.9 36.9 10.5 -2.9 36.1 10.0.3 656.8 2.7 10.0.5 657.4 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0.5 656.8 2.7 10.0 648.5 2.8 2.0.5 649.9 304.0 648.5 2.8 2.0.5 649.9 304.0 648.5 2.8 2.0.5 649.9 304.0 648.5 2.8 2.0.5 649.9 2.7 10.0 648.5 2.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	876	#	5.6	-5.7	0.44	1093.4		0	4.1	1.000263
10.5 -3.9 36.1 1040.3 656.8 2.7 2 1025.3 655.4 358.2 1025.3 655.4 358.2 1025.3 655.4 358.2 1025.3 655.4 358.2 1025.3 655.4 358.2 1025.3 655.4 358.2 1025.3 655.4 358.2 1025.3 655.4 358.2 1025.3 655.4 358.2 1025.3 655.4 358.2 1025.3 655.4 358.2 1025.3 655.4 358.2 1025.3 655.4 662.3 304.5 304.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10	864	3	11.2	-2.9	36.9	1056.7	657.7	12.4	4.9	1.000258
9.3 -4.5 37.2 1025.3 655.4 553.1 168.2 656.4 558.2 558.1 168.2 -5.6 40.7 996.1 658.7 344.0 658.7 344.0 658.7 344.0 658.7 344.0 658.7 344.0 658.7 344.0 658.7 344.0 658.7 344.0 658.7 344.0 658.7 344.0 658.7 344.0 658.7 346.0	848	8.	10.5	-3.9	36.1	1040.3	656.8	2.7	•	1.000253
8.2 -5.1 38.4 1010.6 654.0 353.1 5.8 5.8 19.6 996.1 652.7 324.0 5.8 19.6 11.9 954.0 648.5 289.0 5.1 10.1 46.5 954.0 648.5 289.0 5.1 -10.1 46.5 954.0 648.5 289.0 5.2 -12.7 44.2 940.0 648.5 289.0 5.3 -12.7 44.2 940.0 648.5 271.0 5.3 -12.7 44.2 940.0 648.5 271.0 5.3 -12.7 44.2 940.0 648.5 271.0 5.3 -12.7 44.2 940.0 648.5 271.0 5.3 -12.7 10.0 47.6 990.0 648.5 271.0 5.3 -12.7 10.0 47.6 990.0 648.5 271.0 5.4 -27.8 22.3 844.0 859.2 639.6 277.0 5.4 -27.8 22.3 844.0 859.2 639.6 277.0 5.4 -27.8 22.5 776.1 631.5 268.0 5.4 -27.8 22.5 776.1 631.5 268.0 5.4 -27.8 22.5 776.1 631.5 268.0 5.4 -27.8 22.5 776.1 631.5 268.0 5.4 -27.8 22.5 776.1 631.5 268.0 5.4 -27.8 26.2 776.1 631.5 268.0 5.4 -27.8 26.3 678.1 620.5 269.0 5.4 -27.8 26.3 678.1 620.5 260.0 5.4 -27.8 26.3 678.1 620.5 260.0 5.4 -27.8 26.3 678.1 670.5 260.0 5.4 -27.8 26.3 678.1 670.5 260.0 5.4 -27.8 26.3 678.1 670.5 260.0 5.4 -27.8 26.3 674.0 614.1 221.0 5.4 -27.8 26.3 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.4 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.5 674.0 614.1 221.0 5.5 -27.8 26.0 610.0 51.0 51.0 51.0 51.0 51.0 51.0 51.0	833	-	9.3	5-4-5	37.2	1025.3	655.4	358.2	13.4	1.000249
7.0 -5.8 39.6 996.1 652.7 344.0 4.6 -7.2 41.9 961.8 651.3 327.0 2.3 -8.6 44.2 961.8 649.9 304.5 2.3 -8.6 44.2 961.8 642.9 304.5 2.3 -8.6 44.2 962.0 648.5 289.0 2.3 -10.1 46.5 900.8 642.9 261.7 2.3 -15.2 10.0 47.6 900.8 642.9 267.6 2.3 -15.2 27.1 800.8 642.9 277.7 2.0 -25.8 20.1 807.3 641.1 277.7 2.0 -25.8 20.1 807.3 641.1 277.7 2.0 -25.8 20.7 804.7 635.7 277.7 2.0 -25.8 20.7 804.7 635.7 277.7 2.0 -25.8 20.7 804.7 635.7 277.7 2.0 -25.8 20.7 804.7 635.7 277.7 2.0 -25.8 20.7 804.7 635.7 277.7 2.0 -25.8 20.7 744.7 653.0 268.0 2.1 -16.5 -20.7 804.7 635.7 268.0 2.1 -16.5 -20.7 804.7 635.7 268.0 2.1 -20.7 24.9 772.1 65.8 269.1 2.1 -20.7 24.9 773.3 651.6 266.0 2.1 -20.7 24.9 773.3 651.8 269.1 2.2 -20.7 24.9 772.1 65.8 269.1 2.2 -20.7 24.9 772.1 65.8 269.1 2.2 -20.7 24.9 772.1 65.8 269.1 2.2 -20.7 24.9 772.1 65.8 269.1 2.2 -20.7 24.9 772.1 65.8 269.1 2.2 -20.7 24.9 772.1 65.8 269.1 2.2 -20.7 24.9 644.0 617.3 251.9 2.2 -20.7 26.8 644.0 617.3 251.9 2.2 -20.7 26.8 644.0 617.3 251.9 2.2 -20.7 26.8 644.0 617.3 251.9 2.2 -20.7 26.8 644.0 617.3 251.9 2.2 -20.7 26.8 640.0 614.1 251.9 2.2 -20.7 26.8 640.0 610.0 251.9 2.2 -20.7 26.8 640.0 610.0 251.9 2.2 -20.7 26.8 640.0 610.0 251.9 2.2 -	817	9	8.2	-5-1	38.4	1010.6	654	353+1	13.4	1.000245
5.8	805	٠. د	7.0	-5.8	39.6	996.1	652	344.0	•	1.000241
4.6	787	۰.	5.8	-6.5	40.7	981.8	651,3	327.0	0.6	1.000237
3.5 -7.9 44.2 954.0 648.5 289.0 1.1 -9.4 45.5 913.8 644.5 268.9 268.9 1.1 -9.4 45.5 913.8 644.5 268.9 268.9 1.1 -9.4 45.5 913.8 644.5 268.9 268.9 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.6 2.2 3 1.2 271.7 2.2 3 1.2 271.7 2.2 3 1.2 271.7 2.2 3 1.2 271.7 2.2 3 1.2 271.7 2.2 3 1.2 271.7 2.2 3 1.2 271.7 2.2 3 1.2 271.7 2.2 3 1.2 271.7 2.2 3 1.2 271.7 2.2 3 1.2 2.2 3 1.	7.		4.6	-7.2	41.9	967.8	6.649	304.5	8 5	1.000233
2.3	756	æ 1	3.5	6-4-	43.0	954.0		289.0	10.6	1.000229
1.1	75.	1.7	2.3	-8.6	44.2	†* 0 †6		279.0	12.9	1,000225
-10.1 46.5 913.8 644.3 268.9 -1.2 -10.1 46.5 900.8 642.9 267.6 -2.3 -12.7 44.5 887.3 641.6 274.6 -3.8 -15.2 38.9 873.7 641.6 274.6 -3.8 -15.2 38.9 873.7 641.6 274.6 -3.0 -22.8 22.3 891.5 639.1 277.7 -22.9 26.4 21.1 817.3 637.0 277.7 -27.8 21.1 817.3 637.0 277.7 -27.8 21.3 792.3 634.3 277.7 -27.8 22.5 766.1 632.9 268.0 -10.5 -27.8 22.5 766.3 634.3 272.9 268.0 -10.5 -27.8 22.5 766.1 628.7 268.1 -10.5 -27.8 22.5 766.1 628.7 268.1 -10.5 -27.8 26.0 24.3 771.1 624.4 268.5 -26.9 -26.2 700.2 623.0 269.1 -27.8 -33.0 26.3 676.1 620.5 260.9 -27.8 -35.0 26.3 676.1 620.5 260.9 -27.8 -36.8 24.8 644.0 614.1 251.9 -25.7 -36.8 26.5 650.0 617.3 253.4 -27.6 22.7 610.9 25.2 5 610.9 25.2 -37.6 25.8 610.9 25.2 -37.6 25.8 610.9 25.2 -37.6 27.8 -40.1 28.3 601.6 610.9 25.2 -37.8 -40.1 28.3 601.6 610.9 27.7 27.3 27.3 27.3 27.3 27.3 27.3 27.3	73	6	1.1	ħ•6-	45.3	927.0		271.7	14.8	1.000222
-1.2 -10.9 47.6 900.8 642.9 267.6 -1.2 -10.9 47.6 900.8 642.9 267.6 -2.3 -12.7 44.3 887.3 641.6 274.4 -3.8 -18.6 30.4 859.2 639.6 27.6 27.6 -4.2 -22.6 22.3 844.0 639.1 277.7 -22.9 -25.8 21.1 830.5 638.1 277.7 -22.9 -25.8 20.7 804.7 635.7 277.0 277.0 -27.0 -27.8 20.7 804.7 635.7 277.0 277.0 -27.8 20.7 804.7 635.7 277.0 -27.8 -27.8 20.7 804.7 635.7 278.9 -27.8 -27.8 22.5 768.1 631.5 268.0 -110.5 -29.2 23.7 744.7 628.7 268.0 -26.9 14.0 -27.8 22.5 77.0 -27.8 26.9 26.0 173.3 657.3 620.1 268.0 -26.9 172.1 625.8 620.1 -26.9 -25.7 70.2 620.1 620.9 -25.7 70.2 620.1 620.9 -25.9 -26.2 700.2 620.5 260.9 -26.8 64.0 614.0 617.3 253.4 -27.8 -26.9 -27.8 64.0 614.1 251.9 -27.1 -26.0 -27.1 26.5 601.6 610.9 251.9 -27.1 -26.0 -41.1 26.5 601.6 610.9 252.5 -27.1 -27.1 26.5 601.0 614.1 252.5 -27.1 -27.1 26.5 601.0 614.1 252.5 -27.1 -27.1 26.5 601.0 614.1 252.5 -27.1 26.5 601.0 614.1 252.5 -27.1 26.5 601.0 614.1 252.5 -27.1 26.5 601.0 614.1 252.5 -27.1 26.5 601.0 614.1 252.5 -27.1 26.5 601.0 614.1 252.5 -27.1 26.5 601.0 614.1 252.5 -27.1 26.5 601.0 614.1 27.1 27.1 27.1 27.1 27.1 27.1 27.1 27	7.	7.4	-:	-10-1	46.5	913.8	644.3	568.9	16.6	1.000218
-2.3 -12.7 44.3 887.3 641.6 271.6 -2.3 -12.7 44.5 887.3 641.6 271.6 -3.8 -15.2 38.9 873.7 640.4 274.4 -3.8 -12.5 2.3 88.9 873.7 640.4 277.6 -3.8 -22.6 27.1 817.3 637.0 639.1 277.7 -2.5 -2.1 20.1 817.3 637.0 277.0 -2.5 -2.1 20.1 817.3 637.0 277.0 -2.5 -2.1 20.1 817.3 637.0 277.0 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5	70,		-1.2	6.01-	47.6	8.006	645.9	267.6	18.2	1.000214
-3.2 -15.2 38.9 873.7 640.4 274.4 -3.8 -18.6 20.4 859.2 639.6 239.6 277.6 -27.5 22.3 844.0 639.1 277.7 -27.6 27.6 277.0 -27.7 20.1 817.3 637.1 277.7 -27.0 -27.1 20.1 817.3 637.0 277.7 -27.0 -27.1 20.1 817.3 637.0 277.7 -27.0 -27.1 20.1 817.3 637.0 277.0 -27.1 21.9 780.1 632.9 269.8 -27.1 27.8 22.5 766.1 632.9 269.8 -26.9 766.1 631.5 269.8 -27.6 22.5 766.1 631.5 269.1 -26.9 22.5 766.1 631.5 269.1 -26.9 22.5 766.1 622.9 269.1 -26.9 772.1 624.4 268.7 269.1 -26.9 -27.1 624.4 268.7 269.1 -26.9 -27.1 626.1 626.9 -26.9 -26.9 678.1 626.9 269.1 -26.9 678.1 620.5 257.9 -26.9 -26.9 678.1 620.5 257.9 -26.9 -26.9 678.1 620.5 257.9 -26.9 -26.9 678.1 610.9 257.9 -26.9 -26.9 673.9 610.9 251.0 -26.9 -26.9 -26.9 673.9 610.9 251.0 -26.9 -26.9 -26.9 673.9 610.9 251.0 -26.9 -26.9 -26.9 -26.9 673.9 610.9 251.0 -26.9 -26.9 -26.9 673.9 610.9 251.0 -26.9 -26.9 -26.9 673.9 610.9 251.0 -26.9 -26.9 -26.9 -26.9 673.9 610.9 251.0 -26.9 -26.9 -26.9 -26.9 60.0 -26.9	9	8	-2.3	-15.7	44.3	887.3	641.6	271.6	22.3	1.000209
-3.8 -18.6 30.4 859.2 639.6 276.5 -3.8 -18.6 20.3 844.0 639.1 277.7 -25.0 -25.3 830.5 638.1 277.7 -25.0 -25.1 20.1 817.3 637.0 277.7 -25.0 -25.4 21.3 830.5 638.1 277.7 -25.0 -25.4 21.3 804.7 635.7 275.9 -27.1 21.9 780.1 635.7 272.9 -27.1 21.9 780.1 635.9 269.8 -10.5 -27.8 22.5 768.1 631.5 268.0 -10.5 -27.8 22.5 768.1 631.5 268.0 -10.5 -20.7 744.7 628.7 269.1 -12.8 -29.2 23.7 744.7 628.7 269.1 -15.2 -30.7 24.9 722.1 625.8 269.1 -15.2 -30.7 24.9 722.1 625.8 269.1 -15.2 -30.7 24.9 722.1 625.8 269.1 -17.5 -32.2 26.2 701.2 62.4 618.8 267.1 -26.9 -35.0 26.3 678.1 620.5 250.9 -26.7 -35.0 26.3 674.0 617.3 255.9 -26.7 -35.0 26.3 674.0 617.3 255.9 -26.0 -37.6 25.5 60.9 614.2 612.5 250.3 -26.0 -40.9 29.2 29.2 59.2 59.2 609.3 252.5 -29.9 2 29.2 59.2 609.3 252.5 -20.9 -40.9 29.2 59.2 609.3 252.5 -20.9 -40.9 29.2 59.2 609.3 252.5 -20.9 -40.9 29.2 59.2 59.2 609.3 252.5 -20.9 -40.9 29.2 59.2 59.2 609.3 252.5 -20.9 -40.9 29.2 59.2 59.2 59.2 59.2 59.2 59.2 59	67	7.7	-3.2	-15.2	38.9	÷	P40.4	274.4	56.6	1.000204
-4.2 -22.5 -22.3 644.0 639.1 277.0 -4.2 -25.0 -25.1 830.5 638.1 277.7 -25.9 -25.1 847.0 639.1 277.7 -25.9 -25.1 847.0 635.7 275.0 -27.0 -25.8 20.7 804.7 635.7 272.9 -27.0 -27.0 -27.0 27.0 275.3 -27.0 -27.0 -27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	99	8.4	-3-8	-18.6	30.4	859.2	639.6	276.5	31.3	1.000199
-5.0	9	1.2	2.4.5	-22.5	22.3	0.150	639.1	2/7.6	35.1	1.000193
-5.9 -25.1 20.1 817.3 637.0 277.0 -5.9 -25.8 20.7 804.7 635.7 275.9 -27.1 21.3 780.1 632.9 269.6 -27.8 22.5 768.1 632.9 268.0 -27.8 22.5 768.1 632.9 268.0 -10.5 -27.8 22.5 768.1 631.5 268.0 -10.5 -27.8 22.7 756.3 630.1 268.0 -10.5 -29.2 23.7 744.7 628.7 268.0 -10.5 -30.7 24.3 722.1 628.7 269.1 -15.2 -30.7 24.9 722.1 624.4 268.0 -10.3 -20.2 26.2 70.0 624.4 268.0 -10.3 26.2 260.9 -20.2 -35.0 26.2 666.2 619.7 257.9 -20.2 -36.0 24.2 654.4 618.8 255.1 -26.0 -36.0 24.2 654.4 618.8 255.1 -26.0 -36.0 24.2 654.0 610.9 251.0 -20.3 -	G (D !	0.0	23.8	117	820.5	6.78.1	7.1.2	50.9	1.000190
-7.0 -27.8 20.7 604.7 635.7 275.5 -7.0 -27.8 20.7 635.7 635.7 272.9 -9.4 -27.1 21.3 792.3 634.3 272.9 -9.4 -27.1 21.5 768.1 632.9 268.0 -10.5 -29.2 23.1 768.1 632.9 268.0 -10.5 -29.2 23.7 768.1 628.7 268.0 -10.5 -30.0 24.3 755.3 627.3 269.1 -15.2 -30.7 24.9 722.1 626.8 269.1 -15.2 -30.7 24.9 722.1 624.4 268.7 269.1 -16.3 -33.0 26.2 700.2 623.0 267.1 -10.5 -33.0 26.2 666.2 619.7 257.9 -20.2 -36.0 24.2 656.4 618.8 225.1 -26.0 -36.0 24.2 654.4 618.8 255.1 -26.0 -36.0 24.2 653.9 612.5 255.1 -26.0 -36.0 24.2 653.9 612.5 255.1 -26.0 -40.0 27.2 251.9 654.0 614.1 251.9 -25.0 -40.0 27.2 251.9 522.5 -40.0 27.2 251.9 522.5 -40.0 27.2 251.9 522.5 -40.0 27.2 251.9 522.5 -40.0 27.2 252.5 -40	62	?	0.0	-25-1	20.1	817.3	637.0	217.0	38.4	1.000186
-9.4	To y		0.7	8.cz-	20.1	204.7	635.	272.5	5.63	1.000183
-9.4 -27.1 -21.9 700.1 632.9 209.8 -10.7 -27.8 22.5 756.3 630.1 266.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	0 4	0 0	7.0	120.4	21.5	200	634.3	6.272	7.60	1:00010
-10.5	6 I) t	# 10 · 0	-27.1	21.9	780-1	632.9	200°6	0.04	1.0001/
11.1	n ù			9.12	22.5	1.90/	631.5	506.0	ر • O • ۲	1.0001/4
-14.0 -29.2 23.7 744.7 628.7 200.1 -14.0 -30.0 24.3 733.3 627.3 269.1 -15.2 -30.7 24.9 722.1 625.8 269.1 -16.3 -31.5 25.2 26.2 701.2 624.4 268.5 -13.0 26.8 689.6 621.6 264.2 -19.5 -33.9 26.3 678.1 620.5 260.9 -20.2 -35.0 25.2 666.2 619.7 257.9 -20.9 -36.0 24.2 656.2 619.7 257.9 -20.9 -36.8 24.8 644.0 617.3 253.4 -22.1 -36.8 22.5 65.5 65.5 65.0 514.2 612.5 250.3 -26.3 -40.1 28.3 604.6 610.9 251.4 -28.5 -40.1 28.3 604.6 610.9 251.4 -29.9 -41.8 30.0 556.2 699.3 252.5	ָר ני ני		7.11	5.62	1.62	2.907	630.1	9.007	3	7/1000-1
15.2 -30.0 24.9 722.1 625.8 269.1 -15.2 -30.7 24.9 722.1 625.8 269.1 -17.5 -31.5 25.5 701.2 624.4 268.5 -17.5 -32.2 26.2 701.2 624.4 268.5 -19.5 -33.0 26.8 689.6 621.6 264.2 260.9 -20.2 -35.0 25.2 666.2 619.7 257.9 -20.9 -36.0 24.2 654.4 618.8 255.1 -22.1 -36.8 24.8 644.0 617.3 255.1 -22.1 -36.8 24.8 644.0 617.3 253.4 -22.1 -36.4 26.5 65.5 614.1 251.0 -24.7 -36.4 26.5 614.2 612.5 250.3 -27.3 -40.1 28.3 604.6 610.9 251.4 -28.6 -40.1 28.3 604.6 610.9 252.5	ָה מילי			262-	23.7	/* # # / · · · · · · · · · · · · · · · · ·	628.7	200.1	40.5	1.000169
13.2	1			0.00	2.4.7	0.00	627.3	1.607	0.04	1.000100
-16.3 -31.5 25.5 711.1 624.4 258.5 -17.5 -32.2 26.2 700.2 623.0 267.1 -18.6 621.6 264.2 -19.5 -33.0 26.3 668.2 691.6 621.6 264.2 -19.5 -35.0 25.2 666.2 619.7 257.9 -20.9 -36.0 24.2 654.4 618.8 255.1 -22.1 -36.8 24.8 644.0 617.3 255.1 -22.1 -36.8 24.8 644.0 617.3 253.4 -27.6 25.6 619.7 251.9 -27.7 -37.6 25.6 614.2 612.5 250.3 -27.7 -37.8 26.5 614.2 612.5 250.3 -27.3 -40.1 28.3 604.6 610.9 251.4 -28.6 -40.8 30.0 585.9 607.7 252.5	ກໍ່	•	15.2	-30.7	24°9	722.1	622.8	209.1	7.60	1.000164
-17.5 -52.2 26.2 700.2 623.0 267.1 -19.6 -33.0 26.3 689.6 621.6 264.2 -19.5 -33.0 26.3 67.1 620.5 52.4 67.1 620.5 260.9 -20.2 -35.0 26.3 654.4 618.8 255.1 -26.8 644.0 617.3 255.1 -25.4 -37.6 25.6 633.9 617.3 251.9 -27.7 -36.8 27.4 614.2 612.5 250.3 -27.7 -36.8 27.4 614.2 612.5 250.3 -27.7 -36.8 3.0 614.2 612.5 250.3 -27.8 -40.1 28.3 604.6 610.9 251.4 -28.6 -40.8 30.0 585.9 607.7 252.5	i a	.	-16.3	-31.5	25.5	711.1	524.4	268.5	39.A	1.000161
-18.6 -33.0 26.8 689.6 621.6 264.2 -19.5 -33.9 26.3 678.1 620.5 260.9 -20.2 -35.0 25.2 666.2 619.7 257.9 -20.9 -36.0 24.2 654.4 618.8 255.1 -22.1 -36.8 24.8 644.0 617.3 253.4 -23.4 26.5 65.6 633.9 615.7 251.9 -24.7 -36.4 26.5 624.0 614.1 251.0 -27.3 -40.1 28.3 604.6 610.9 251.4 -28.5 -40.1 28.3 604.6 610.9 252.5 -29.9 -4.0.8 30.0 556.9 67.7 252.5	֚֚֚֡֞֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝	. ·	-17.5	-32.2	26.2	700.2	623.0	267.1	t - T +	1.000158
-19.5 -33.9 26.3 678.1 620.5 260.9 -20.2 -35.0 25.2 666.2 619.7 257.9 -20.9 -36.0 24.2 654.4 618.8 255.1 -22.1 -36.8 24.8 644.0 617.3 253.4 -27.6 25.5 65.5 654.0 614.1 251.9 -24.7 -36.4 26.5 654.0 614.1 251.0 -26.5 -40.1 28.3 604.6 610.9 251.4 -28.5 -40.1 28.3 604.6 610.9 252.5 -29.9 -4.0.8 30.0 585.9 607.7 252.5	ָה מ	٠. د د	-18.6	-33.0	26.8	9.689		504.5	43.7	1.000156
.8 -20.2 -35.0 25.2 666.2 619.7 257.9 .0 -20.9 -36.0 24.2 654.4 618.8 255.1 .2 -22.1 -36.8 24.8 644.0 617.3 253.4 .5 -23.4 -37.6 25.6 633.9 015.7 251.9 .1 -24.7 -36.4 26.5 624.0 614.1 251.0 .8 -26.0 -36.2 27.4 614.2 612.5 250.3 .9 -28.6 -40.1 28.3 604.6 610.9 251.4 .2 -29.9 -41.8 30.0 585.9 67.7 252.3	64	3.8	-19.5	-33.9	26.3	678.1		560.9	46.7	1.000153
.0 -20.9 -36.0 24.2 654.4 618.8 255.1 .2 -22.1 -36.8 24.8 644.0 617.3 253.4 .5 -23.4 -37.6 25.6 653.9 015.7 251.9 .1 -24.7 -36.4 26.5 624.0 614.1 251.0 .8 -26.0 -31.2 27.4 614.2 612.5 250.3 .8 -27.3 -40.1 28.3 604.6 610.9 251.4 .2 -29.9 -41.8 30.0 585.9 667.7 252.5	8	3.8	-200-	-35.0	5	666.2		557.9	49.1	1.000150
2 -22.1 -36.8 24.8 644.0 617.3 253.4 5 -23.4 -37.6 25.6 633.9 615.7 251.9 11 -24.7 -36.4 26.5 624.0 614.1 251.0 18 -26.0 -30.2 27.4 614.2 612.5 250.3 18 -27.3 -40.1 28.3 604.6 610.9 251.4 2 -29.6 -40.8 30.0 585.9 607.7 252.5	47	0.7	-20.9	-36.0	3	654.4	618	255.1	51.5	1.000147
.5 -23.4 -37.6 25.6 633.9 615.7 251.9 .1 -24.7 -36.4 26.5 624.0 614.1 251.0 .8 -26.0 -31.2 27.4 614.2 612.5 250.3 .8 -27.3 -40.1 28.3 604.6 610.9 251.4 .9 -28.6 -40.8 30.0 585.9 669.3 252.5	9#	4.2	-22.1	-36.8	3	0.449	617.3	253.4	53.6	1.000145
.1 -24.7 -36.4 26.5 624.0 614.1 251.0 .8 -26.0 -3 ⁽¹ .2 27.4 614.2 612.5 250.5 .8 -27.3 -40.1 28.3 604.6 610.9 251.4 .9 -28.6 -40.9 29.2 595.2 669.3 252.5 .2 -29.9 -41.8 30.0 585.9 667.7 252.5	<u>ئ</u>	\$ ·	-53.4	-37.6	ŝ	633.9	615	551.9	55.to	1.000143
.8 -26.0 -3 ^{(1,2} 27.4 614.2 612.5 250.3 .8 -27.3 -40.1 28.3 604.6 610.9 251.4 .9 -28.6 -40.9 29.2 595.2 669.3 252.5 .2 -29.9 -41.8 30.0 585.9 667.7 252.3	オナ	5.1	-24.7	-36.4	9	624.0	614.1	251.0	57.5	1.000140
.8 ~27.3 ~40.1 28.3 604.6 610.9 251.4 .9 ~28.6 ~40.9 29.2 595.2 669.3 252.5 .2 ~29.9 ~41.8 30.0 585.9 667.7 252.3	E a	å	-26.0	-30.5	7.	614.2	615.5	250 • 3	59.1	1.000138
.9 -28.6 -40.9 29.2 595.2 609.3 252.5 .2 -29.9 -41.8 30.0 585.9 607.7 252.3	42	•	-27.3	-40.1	8	9.409		51.	59.1	1.000136
.2 -29.9 -41.8 30.0 585.9 607.7 252.	∓		-28.6	6.04-	6	595.2	609.3	252•5	59.0	1.000134
	40		-29.9	-41.8	•	585.9	1.709		7	1.000131

STATION ALTI 31 MAR. B1 ASCENSION NO	TUDE 41	26.59 FEET MSL 0655 HRS MST	ET MSL MST	_	UPPER AIR DAT 0900010053 HOLLOMAN TABLE 13 CON1	DATA 053 Cont'		GEODETIC 32.86 106.09	DETIC COORDINATES 32.88865 LAT DEG 106.09965 LON DEG
GEOME TRIC	PRESSURE		TEMPERATURE	REL.HUM.	DENSITY	SPEED OF	WIND DATA	47	INDEX
ALTITUDE MSL FEET	MILLIDARS	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	GM/CUBIC METER	SOUND KNOTS	DIRECTION DEGREES(IN)	SPEEU KNOTS	OF REFRACTION
24000•n	400.7	-31.2	-42.7	30.9	576.8	0.909	251.8	57.5	1.000129
24500.0		-31.8	-42.3	34.4	560.1	605.2	250 • 4	59.0	1.000127
25000.0	383	-32.8	-42.7	36.2	556.1	Ī	8.64Z	61.5	1.000125
25500.0		-34.0	-43.7	36.5	546.9	602.5	54648	65.0	1.000123
26000.0		-35.3	8.44-	36.7	537.9		549.6	61.9	1.000121
26500.0		-36.5	-45.8	37.0	529.0		249.3	70.6	1.000118
27000.0		-37.8	6.94-	37.3	520.2	-	249.1	72.6	1.000116
27500.0		-39.0	-48.0	37.6	511.7		248.8	73.3	1.000115
28000.0		-40.5	0.64-	٥	503.3		248.3	72.1	1.000113
28500.0		9.01	-62.7	7.2**	493.0		247.6	689	1.000110
29000-0		/ • T th =			6.484.3	_	24/42	90.5	1.000108
7.00C62		0.041			4.0.2	591.1	T•/57	1.00	10001000
30000.0		C • 4 1 1 1			Z • 80+	027V.	240.4	2.00	#01000 T
31000.0		-66-7			450.1		26.50	4 4 4	1.000101
31500.0		-47.9			4 - 13 - 13 - 13		245.1	63.0	
32000•0		0.64-			436.0		544.4	63.1	1.000097
32500.0		-50.5			428.1		244.1	63.4	1 • 000095
33000.0		-51.3			420.5		243.7	63.7	1.000094
35500.0		-52.5			412.9		243.9	65.0	1 • 000092
3+000•N		-53.6			4,05.6		244.3	5. 5. 5.	1.000090
34500.0		-54.8			398.3		# · ## 7	67.3	1.000089
35000.0	242.8	8.00 0.01			390.8		244.5	67.7	1.000087
32200.0		000			375		1	5.10	Ce0000 .
360000		1			36.0	571.9	7.57	0000	1.000084
37000.0		0.7.Y-			357.1		242	4.79	1.000080
37500.0		-57.7			349.7		241.6	62.1	1.000078
30000.0		-58.4			342.5		242.3	65.4	1.000076
38500·n		-59.1			335.4		243.2	69.5	
39000•0		8·65-			3241.5	56.9.0	244.5	73.1	1.000073
39500.0	190.3	6-65-			320.7		246.1	76.5	1.00001
40000.0	191.6	-59.8			312.9	5 ₆ 9.1	547.4	79.2	1.000070
•	•	-29.6			305.2		248.0	78.8	1.000068
41000.0	•	-59•3			297.3	569.8	248.7	78.4	1.000066
41500.0	•	-58.8			289.6		24B•8	76.8	1.000064
42000.0	174.0	-58.3			282.1		248.6	74.7	1.000063
2500.	٠. . د	-58.2			275.2		548.t	73.0	1.000061
5000		-58.7			269.3		248•2		1.000060
43200.0	0.191	1-96-			200.4	573.1	7.0.7	111	1 • 00000

** AT LEAST ONE ASSUMED REL/TIVE FRIDITY VALUE WAS USED IN THE INTERPOLATION.

FET MSL IS MST IMPERATURE	RE	REL		- 6 0	ODSS cont' SPEFU OF	Ju AIND DAT#	1	DETIC COOKDINATES 32.88865 LAT DEG 106.09965 LON DEG INDEX
AIK DEWPOINT DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	<u>~</u>	PERCENT	ပ	SOUND	DIR CTION DEGREES (TN)	SPEED	OF REFRACTION
	.8			254.4	573.0	248.6	72.1	1.000057
154.2 -57.0	0-			248.5	572.8	0.642	73.3	1.000055
	÷ .			237.4		250.6	77.7	1.000053
	8.			232.1		250.7	76.0	1.000052
	2.4			227.0	571.2	250.7	73.9	1.000051
				217.1		249.3	0.49	1.000048
	. 3			212.3		248.2	62.0	1.000047
	9•			207.5		247.0	59.1	1.000046
121.2 59.6	ب ب			202.5	569.3	246.3	59.7	1.000045
	0 4			197.1	564.5	245.4	60.5	1.00004
	2.			188.0		245.5	6.49	
	••			183.0		245.5	9•99	1.000041
	0•			178.2		245.7	9.79	1.000040
10/•4 =58•2 104•8 =58•7	2.			174.0	571.2	245.9	568.4 566.4	1.000039
	£.			166.7		247.1	4.49	1.000037
97.4	.			163.1	569.0	247•8	60.09	1.000036
47.5 160.1 95.1 1.02.5				159.4		248.7	56.7	1.000036
	. 60			152.3	567.7	250•3	50.0	1.000034
	•1			148.9	56.7.3	251.0	47.2	1.000033
	ທີ່			145.5	566.8	250.7	45.4	1.000032
80.0 161.8	×			142.2	566.4	250.1	C	1.000032
	.			135.9		246.5	4. U.S.	1.000030
80.2 -62.4	*			132.6		2.44.2	43.6	1.000030
	•1			129.1		241.5	6.44	1.000029
	- -			125.8		238∙8	46.3	1.000028
	r•			122.6		236.7	46.1	1.000027
	••			119.4	567.5	235.1	42.5	1.000027
	••			116.3		233.2	39.0	1.000026
69.3 -60.2	21.			113.3	568.5	234.3	32.8	1.000025
	, •			110.3	269.5	25/1.5	2.02	1.000025
	2.			107.5	569.B	:J:	19.6	1.000024
/*O'	~ F			7.607	570.5	0 6	18.2	1.000023
				0.707	0.1/6		7.7	620001
l	r			0.67	0.176	9.303	•	1.000022

UPPER AIN DAIA	STATION ALITTUDE 4126.59 FEET ASL 0900010053	HI 0655 HRS MST LIQLLOMAN	
	STATION ALITTU	31 HAR. HI	ASCENSION 110. 53

STAFION AL	IITUUE 41	26.59 FEET ASL		0900010055	۸ . در در		OEODE T.	DEODETIC COOKDINATES
31 HAR. H1 ASCENSION NO.	53	0655 MRS MST		HABLE 193	cont'		32. 106.	32.88865 LAY DEG 106.09965 LON DEG
GEUMETRIC	PRESSURE	TEMPEKATURE	REL.HUM.	DENSITY	SPEFU OF	WIND DATE	1,.	INDEX
ALTITUDE MSL FEET	MILLIBARS	AIR DEWPOINT DEGREES CENTIGRADE	PERCENT	GM/CUBIC METER	SOUND	DIRFCTION DEGREES(IN)	SPEED KNOTS	OF REFRACTION
64000.0	59.9	-5,8 • 4		97.2	570.9	256.7	18.1	1.000022
64500.n	54.5	-58.5		6.46		251.5	19.5	1.000021
65000.0	5/.1	-58.5		7.76	_	243.9	20.4	1.000021
65500.n	55.8	-58.6		90.5		236.5	21.9	1.000020
0.00000	54.4	-59.3		88.6		231.2	23.8	1.000020
0.0050a	55.1	-60.2		86.9	_	229•6	25.9	1.000019
0.70005d	51.8	-61.1		85.1		228•2	28.0	1.000019
67500.0	90.6	-62.0		83.5		220.6	56.9	1.000019
68000•n	t,•6t	-61.5		81.5		224.5	24.5	1.000018
ტ იე 200•0	48.2	-59.7		78.7		222 • to	21.9	1.000018
0.000ka	4/•1	-57.9		76.2		554.0	18.3	1.000017
69500.0		-56.2		73.8		226.1	14.7	1.000016
70000		± • ± €		71.5		255.7	13.0	1.000016
71900	20°0	152.6		69.2	578.5	244.5	12.8	1.000015
71500.0	8	7 7 7 1		1.10	6.77	4.002	10.40	1.000013
0.00017	0 4 4 4	150		6000	2.175	5.007	ς•0¶	C10000-1
77500.0	00.0	134.7		64.6	576.5	204.5	14.1	1.000014
73000.0	30.9	-54.9		62.2		266.3	14.7	1.00014
7.5500.0	38.0	-54+1		60.5		265.2	14.8	1.000013
7400047	37.2	-500 -		58.9	577.6	204.0	14.6	1.000013
74500.0	30.3	-52.6		57.3	578.5	262•₺	13.5	1.000013
75000•1	35.0	-51.B		55.8		261.3	12.5	1.000012
75500.0	34.0	-51.1		₹• †Ç	540.5	260•3	10.9	1.000012
75000.0	33.8	150.3		52.9		260.0	80 • 17	1.000012
76500.0		-50.5		51.7		261.1	6.1	1.000012
0.000//	36.3	150.6		50.50 50.50		259.7	4.2	1.000011
7.500.0		# DA		49.5		255.5	æ. .∨.	1.000011
100000		T • T • T • T		7• Ω t.		220.6	1.t	1.000011
0.00507	7.00	# TS		47.5		213.9	ા	1.000011
0.00007	7.70	6.05 <u>1</u>		40.5		208•4	2•0	1.000010
0.000	0.07	-50·4		0.5.	-	202.5	2.5	1.000010
3000e	28.1	8-64-		43.9		209.1	5.9	1.000010
5050G	2/•5	21.9.2		8.5°		217.1	3.2	1.000010
0.00L5	50.9	7.84-		41.7		223.5	3.6	1.000009
81500.0	5p•3	1.84-		40. 40.		231.0	3.0	1.000003
0.00020	25.7	-47.5		39.6		242.1	4•1	1.000099
82500.0	ភំ :	0 • / 4 -		38.6		550.4	4.5	1.00000
85000.0	24.5	D 0 0 1		37.7	-	258∙1	4.7	1.000008
83500.0	24.5	140.5		20.7	57.7.4	5+407	ડ. •	1.000008

STATION ALTITUS 1 MAR. 61	STATION ALTITUDE 4126.59 FEET MSL 31 MAR. 61 0655 HRS MST ASCENSION NO. 53	26.59 FEE 0655 HRS	I MSL MSI	-	UPPLR AIK UATA 0900010053 HOLLOMAN TABLE 13 cont'	U^TA 53 cont'		u£ ODE T I 32• 106•	ULODETIC COOKUINATES 32.88865 LAT DEG 106.09965, LON DEG
GEOMETRIC ALTITUDE MSL FEET		TEMP AIR DEGREES	PRESSURE TEMPERATURE AIR DEWPOINT MILLIUARS DEGREES CENTIGRADE	REL.HIM. PERCENT	REL, HUM, DENSITY PERCENT GM/CUBIC METER	SPEFD OF SOUND KNOTS	WIND DATA DIRECTION SI DEGREES(IN) KI	SPEED KNOTS	INUEX OF REFHACTION
84000.0	23.4	-45.3			35.8	5.48.1	272.3	3.3	1.000008
04500·0	22.9	L+44-7			34.9		277.0	4.1	1.000008
85000·n	22.4	9.44-			34.1		277.0	3.2	1.000008
85500·0		-45.0			33.4		276.0	2.4	1.000007
86000.		-45.2			32.7		269.3	1.7	1.000007
86500·0		-45.5			32.0		245.9	2.1	1.900007
87000.0		-45.7			31.3		231.9	2∙8	1.000007
67500.0		-45.9			30.6		224 • 5	3.6	1.000007
86000.0		-45.5			29.9	5A7.8	232.4	5.0	1.000007
68500∙0		-45.2			29.5		236∙8	6.5	1.000006
89000•0		8.44-			28.5		239.5	8.0	1.000006
69500.0		カ・カシー			27.8				1.000006
9.00006		-4401			27.1				1.000006
90200.0		-43.7			26.5				1.000006
91000.0		# · C = -			25.9	500.6			1.000006

AUTITION	4126.50 555	<i>5</i>	Σ	MANDATORY LEVELS	EVELS		DELANTINGOOD DAY BOOT
AR. 131	AR. 111 OL TEN MELL MELL MELL MELL MELL MELL MELL ME	MST MST		HOLLOMAN	?		SPANNES SPANNES 32.88865 LAT DEG
.0N 1101 SN	c S	:		TABLE 14			106.09965 LON DEG
	PRESSURE G	PRESSURE GEOPOTENTIAL		TEMPERA TURE	KEL . HUM.	AIND DAIA	AlA
	1		AI	DEWPOINT	PERCENT	DIRECTION	SPEED
	MILLIBARS	FEET	DEGREES	CENTIGRADE		DEGREES (TN)	KNOTS
	H50.n	4958.	10.6	-3.8	36.	3.5	9•6
	₽9009	6603.	6.8	-5.9	40.	341.3	10.4
	750.0	8330.	2.7	-8-4	. 41		12.3
	700.n	10147.	-1.6	-11.1	48.		10.4
	650.0	12072.	-4.3	-22.7	28.		35.3
	6.009	14126.	-8.5	-26.6	21.		39•8
	550.n	16319.	-13.5	-29.7	, 1	269.0	40•1
	200.0	18672.	-10.1	-33+3	27.		8**
	450.n	21223.	-24.0	-38.0	, 92,		56.5
	0 • 0 0 to	24002.	-31.3	-42.8	31.	251.7	57.6
	350.0	27067.	-38.0	-47.1	37.		73.0
	300.0	30496.	-45.7				64.5
	250.n	34403.	-54.7				67.2
	200°	39029.	U•09-				73.8
	175.0	41771.	-58.4				75•3
	150.0	44965.	-57.1			250.0	76•2
	125.0	48725.	-54.6				59.5
	100.0	53317.	-59.8				61.3
	80.0	57861.	-62.4				45.8
	0.07	60578.	-60.4			233.2	36.3
	0.09	63750.	-58.4				18.0
	50.0	67491.	-62.4				25.9
	40.0	72149.	-54.6				14.6
	30.0	78262.	-51.4				1.5
	55.0	82187.	6.94-			251.1	4.5
	20·n	67070°	-45.9			224.5	3.4

	DEODETIC COORDINATES	106.49511 LON DEG																		
DATA			REL.HUM.	PERCENT		31.0	40.0	40.0	40.0	0.44	48.0	27.0	23.0	24.0	30.0	34.0	0.64	0.04		
SIGNIFICANT LEVEL DATA	0900030017 JALLEN	TABLE 15	TEMPERATURE	DEWP01N1	DEGREES CENTIGRADE	-9.1	-3.2	-4.1	-10.2	-12.7	-16.0	-23.0	-24.6	-56.9	-32.6	-36.8	-38.2	T.64-		
SIGNIFIC	و م	Τ	TEMP	AIR	DF. GREES	6.8	0.7	8.7	1,9	-2.1	6.9-	-7.3	-7.3	-10,3	-19,5	-27.9	-31.0	-41.5	-46.7	-51.5
	1 5.		PRESSURE GEOMETRIC	ALTITUDE	MSL FEET	4051.0	4524.1	8.6464	9480.6	10126.9	12053.1	12434.6	12797.1	14697.5	18637.3	22396.8	23963.9	28495.8	30466.4	32504.0
	STATION ALITIUDE 4051.00 FEET MSL 31 MAR. 81	ASCENSION NO. 17	PRESSURE		MILLIBARS	878.6	963.4		745.2							•		328.0		273.0

STAIION ALTITUDE 31 MAR. 81 ASCLNSION 140.	4	051.00 FEET MSL 0655 HRS MST	ET NSL MST	_	UPPER AIR UAT 0900030017 JALLEN TABLE 16	DATA		0E0DETIC 33.16 106.49	DETIC COOKUIHATES 33.16712 LAT UEG 106.49511 LON UEG
CFORM TOTA	ği 7 baq	1000	Towns	5		<u> </u>	3		1
AL 11TUDE	TRESCORE	A 18	DEWPOINT	PERCENT	GM/CUBIC	SOUND	DIRECTION S	SPEED	INDEX OF
MSL FEET	MILLIUARS	ö	ပ		METER	KNOTS	DEGREES (TN)	KNOTS	REF HACT 10H
4051.0	879.6	6.8	1-6-	31.0	1091.9	652.3	360.0	1.9	1.000258
4500.0	864.2	9.6	-3.5	39,5	1062.7	655.7	338.3	2.3	1 • 000259
5000.0	848.4	9.8	Z• h-	0.04	1046.9		322.6	•	1.000255
5500.0	B32.7	7.6	-5-1	0.04	1031.2		313.1	3.7	1.000250
0.0000	817.4	7.9	-5.9	40.0	1015.7		307.0	4.6	1.000245
0.500.0	802.3	5.7	-6.8	0.04	1000.5	_	305.0	9.9	1.000241
7000-	787.5	8 • † †	-7.7	0.04	985.5		303.9	å	•
7500.0	172.9	8° 6	-8-2 -	0.04	970.8		291.1	10.3	1.000232
8000s	7.56.7	8° C	١.	0.04	956.2		240.2	12.4	1 • 000228
0.000	7 0 1 1	۲۰۱	5.01-	0.04	0.546		2/0.3	14.3	00022
0.00	7.5	•	0.11.	611,00	# 826 # 826		201.0	16.2	٠
0.0056	10.7	•	-11.	0.1	915.0	643.6	530.3	18.4	1.00021/
100001	4004	9-1-	-12.5	43.	901.9	642.2	255.0	20.4	00021
1.0001	0.069	0 1	113.5	ָ בּ בּ	80808	040.	C.0C.2	22.6	
11500.0	663.8	1 1 1 1 1 1	Z+hT_	0 · 0 · 0	8.5.9	639.2	202.1	200	1.000206
12000-0	651.1	6.6	15.0	67.9	850.7	637.0	271.0	7 K	1.000.00
	638.6	-7.3	-23.3	26.3	9 (1 3	276.0	(C)	1.000191
13000.0	620.2	-7.6	-25.0	23.1	821.1	635.0	277.4	36.7	1.000187
13500.0	614.0	-8.4	-25.6	23.4	807.6		278.5	39.1	1.000184
14000.0	602.1	-9.5	-26.2	23.6	794.3		276.4	41.2	•
14500.0	290•4	-10.0	-26.7	23.9	7A1.2	-	274.1	43.2	1.000178
15000.0	578.7	-11.0	-27.3	24.5	768.7		271.0	43.5	1.000175
15500.0	567.2	-12.2	-28.0	25.2	75c.8	6,669	268∙6	ម្តី មុខ ម	1.000172
15000.0	555.9	-13.3	-28.7	26.0	745.1		267.6	42.7	1.000169
10500.0	0440	214.5	-29·4	26.7	733.6		267.3	150	1.000166
17500.0	10.40		1.00-	0.42	6.277		20.70	T • P •	•
0.000%1	5.00	9	31.5	0.00	700.3	0000	1.696	E 10.	1.000101
18500.0	502.8	2.61-	120.4	29.8	689.4		270.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.000156
19000.0	492.5	-20.3	-33.2	30.4	678.4		270.3	45.2	1.000153
19500.0	482.4	-21.4	-34.0	30.9	667.4	5	5,995	48.1	.0001
20000-0	475.4	-22.5	-34.8	31.4	9.959		560.5	52.2	1.000148
20500-0	466.7	-23.7	-35•6	32.0	64549	19	256.3	55.3	1.000146
21000·ŭ	453.2	-24.8	-36.5	32.5	635.5	5	252∙6	•	1.000143
21500.0	445.9	-25.9	-37.3	33.0	625+2		552.9	•	1.000141
22000.0	7 - 4 S t	2.5	-38.2	33.6	615.2		• • •	62.5	1.000138
0.0052	1.024	200	53.	35•U	602.1		יות מיח	63.8	1.000136
2.50003 · O	10.00 10.00	129.1	-38.4 - 28.1	39.83	594.8	000	254.1	65.3	1.000134
2,000	0.0(1)	•	7.50	0 * †	0.400		,	≎•00	0

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

	GEODETIC COORDINATES	33.16712 LAT DEG	106.49511 LON DEG
MANDATORY LEVELS	0900030017	JALLEN	TABLE 17
	STATION ALTITUDE 4051.00 FEET MSL	31 MAR. 61 0655 HRS MST	ASCENSION 1.0. 17

PRESSURE G	PRESSURE GEOPOTENTIAL	TEM	TEMPERATURE	KF1 .HUM.	WIND DATA	DATA
MILLIHARS	FEET	AIR DEGREES CE	DEWPOINT CENTIGRADE	<u>.</u>	DIRECTION DEGREES(TN)	SPEED KNOTS
850.1	49464	7.8	-4.1	40.	323.9	6.5
0.000	6582.	5.6	6.9-	, 0,	304.8	7.0
750.0	8303.	2.5	6•6-	40	274.5	13.7
V-002	10118.	-2.1	-12.7	r t	254.7	20.9
6.50.0	12033.	6.9-	-16.0	φ.	272.3	31.3
6.000	14074.	-9.3	-26.3	24.	276.0	41.5
550.0	16263.	-14.0	-29.1	26.	267.1	4<.2
500.0	18613.	-19.5	-32.6	30.	270.1	0.44
450.0	21153.	-25.5	-36.8	33.	252.0	59.1
(100°)	23926.	-31.0	-38.2	•64	554.6	68•1
350.0	26989.	-38.1	-45.9	43.	255.9	67.3
300.0	30409.	-46.7			247.8	73.0

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES 33,16712 LAT DEG 106.49511 LON DEG																											
J. T.A.	REL.HUM. PERCENT	17.0 34.0	46.0	24.0	26.0 32.0	37.0	36.0	32.0	0.10																		
SIGNIFICANT LEVEL DATA 0900030018 JALLEN TABLE 18	TEMPERATUKE IR DEWPOINT REES CENTIGRAIK	-10.7	1011	-22.1	-24.5	-34.3	-35.b	+	+• nc.				,														
SIGNIFIO O AC TA	TEMP AIR Degrees	13.9 11.9 9.8	7.1-	L. 4-	-19.8	-23.8	-24.8	2.16.	-46.5	-55.9	-60.2	-58.8 50.8	-59.8	-54.6	-56.3	-55.7	100. 100.	-61.5	-53.8	-56.8	-64.7	-53.9	-55.3	-53.8	-53.6	1 to 1	* * * * * * * * * * * * * * * * * * * *
45 L 1		4051.0 4353.4 4989.9	9206.1	12024.7	18701.7	20365.6	21180.6	27040	30526.9	34429.5	37386.2	38300.0	39277.7	40785.0	41814.8	4.07024	53437.4	55366.5	59118.9	60851.3	65144.1	67782.5	10776.8	72084.0	75220.9	18652.4	031710
STATION ALFITUDE 4051.00 FEET MSL 31 mar. 81	PRESSURL MILLINARS	879.6 870.0 850.0	726.2	651.8	2•866 0•009	466.8	451.2	11.00+ C.01*	300.008	250.0	216.8	207.4	197.8	184.0	175.2	150.0	100.001					0.n.s	するのか	8°C3	3.5° E	D•BC	rerd

March Marc						TABLE 19			•	
679.6 13.9 -10.7 17.0 1066.3 66.0,4 270.0 1.9 695.4 11.4 -5.9 34.0 1065.2 647.8 286.4 1.6 610.5 4.6 5.6 10.0 1.6 65.1 310.9 1.6 814.7 8.6 -6.4 36.3 1000.1 6.1 30.0 1.6 814.5 -6.4 36.3 1000.1 6.1 30.0 1.6 786.5 5.0 -6.4 36.3 1000.1 6.2 10.0 4.5 10.0 4.5 10.0 4.5 10.0 4.5 10.0 4.5 10.0 4.5 10.0 4.5 10.0 4.5 10.0 4.5 10.0 4.5 10.0 4.5 10.0 4.5 10.0 4.6 4.5 10.0 4.5 10.0 4.5 10.0 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6	ETRIC TUDE FEET			PERATURE DEWPOINT CENTIGRADE			SPEFD OF SOUND KNOTS	WINL DA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
865.4 114 -3.9 34.0 1167.2 647.8 286.4 11.6	ก51.ก	879.6	'n	10	•		. 660.	270.0		1.000250
049.7 9.8 -5.3 34.0 1044.5 510.5 11.7 049.7 9.8 -5.3 34.0 1044.5 510.5 11.7 049.6 7.8 35.5 100.1 641.7 523.0 41.7 040.4 6.2 -6.9 38.3 1000.1 641.7 529.0 41.7 789.6 2.7 -6.9 44.4 66.1 29.0 41.7 789.6 2.7 -6.9 40.4 44.7 529.0 10.6 745.6 1.0 -6.1 42.6 96.0 642.5 10.6 745.6 1.0 47.7 96.0 642.5 20.0 10.6 713.6 -2.2 -10.1 45.4 916.9 642.5 20.0 10.6 713.6 -2.2 -10.4 44.7 916.9 642.5 20.0 10.6 605.1 -4.7 -2.2 -10.4 44.7 20.0 10.0 10.0 10.0 10.	0.000	865.4	11.4	9.5	34.0	1057.2	744	286.4	1.6	0000
694.0 86.6 56.9 1014,6 65.3,1 322.7 17.7 694.0 56.9 1014,6 65.3,1 322.7 17.7 17.4 6.9 36.9 1014,6 65.3,1 322.7 17.7 17.4 6.9 39.7 985.8 660.7 291.9 6.3 17.7 17.4 6.9 4.2 529.9 10.6 6.3 17.8 6.9 10.9	000	7.44.7	8.0	. F	2 2 2	1044		4004		7000
810.5 7.4 -6.9 38.3 100.1 641.7 308.0 4.5 174.6 551.1 308.0 4.5 174.6 551.1 308.0 4.5 174.6 551.1 308.0 4.5 174.6 551.1 308.0 4.5 174.6 551.1 308.0 5.7 174.6 5.2 174.		0.446	0 4		ָרָע ער אַר			2.012		3020001
101.0.5 101.	0.000	200	0 6	0 :	000	10696		7.200		1.000240
786.5 56.2 -6.9 38.3 100.6 6.1 7 30.9 6.3 17.8 6.2 7.5 6.3 17.8 6.3 17.8 6.3 17.8 6.3 17.8 6.3 17.8 17.8 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.8 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17.2	J-000	610.5	5 • •	† • • •	36.4	1014.6		363.0		00024
786.5 3.0 -7.5 39.7 995.8 0.50.3 291.9 6.3 74.6 2.7 -6.8 42.6 647.6 2.7 -6.8 42.6 647.6 2.7 -6.8 42.6 647.6 2.7 -6.8 42.6 647.6 2.7 -6.8 42.6 647.6 2.7 -6.8 42.6 647.6 2.7 -6.8 42.7 -6.9 642.5 252.6 10.6 17.1 -7 -11.8 42.3 916.9 643.5 252.6 10.6 17.1 -7 -11.8 42.3 916.9 643.5 252.6 19.7 10.1 -2.7 -11.8 42.3 916.9 643.5 250.5 19.7 10.6 652.1 -4.7 -22.0 20.8 859.6 639.5 282.1 32.6 10.6 10.6 10.6 10.8 2.7 10.6 10.6 10.6 10.6 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8	500.0	802.4	6.2	6.9-	38.3	1000.1		308•0	S .	1.000240
77% 6 3.6 -6.1 41.1 971.8 648.9 273.5 8.1 77% 6 3.4 42.6 642.5 252.0 13.8 7.3.8 -6.1 44.1 95.4 931.0 644.7 249.4 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17	0.000	788.5	5.0	-7.5	39,7	985.8		291.9	6.3	1.000237
759-6 759-6 745-6 745-6 745-6 745-6 745-6 745-6 745-6 745-6 745-6 745-6 745-6 745-7 74	500.0	774.0	3.8	-8.1	41.1	971.8		273.5	8.1	•
745.6 1.5 -9.4 44.0 944.4 646.1 252.0 13.8 73.0 644.7 731.8 -3110.1 45.4 931.0 644.7 249.4 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17	0.000	759.6	2.7	-8.8	45.6	958 · C		259∙ ն	10.6	•
731.8	3500.0	745.6	1.5	7.6-	0.44	7.776		252.6	13.8	•
716-17 -11-8 42-3 916-9 643-5 256-5 19-7 770-5 -1-4 -14-5 36-1 9972-3 642-5 256-5 19-7 770-5 -1-4 -14-5 36-1 9972-3 642-5 264-2 26-6 691-2 -2-2 -16-6 53-2 9-5 873-7 640-5 270-7 280-9 655-4 -4-7 -22-6 24-4 873-7 640-5 270-7 280-9 655-4 -4-7 -22-6 24-4 873-4 673-7 640-5 270-7 280-9 655-4 -4-7 -22-6 24-4 873-4 673-5 201-5 270-1 37-1 675-8 675-5 270-1 37-1 675-8 675-5 270-1 37-1 601-5 -23-7 26-6 24-4 873-4 673-5 270-1 37-1 601-5 270-7 270-9 26-4 873-4 673-5 270-1 37-1 601-5 270-1 201-5 270-1 37-1 601-5 270-1 201-5 270-1 37-1 601-5 270-1 201-	0.000	731.8		-10.1	4.54	931.0		540.0	17.1	1.000222
704.5 -1.4 -14.5 36.1 902.3 642.5 264.2 22.6 691.2 -2.2 -16.6 32.2 887.9 641.5 273.5 26.1 665.1 -3.0 -16.6 32.2 887.9 641.5 273.5 26.1 665.1 -3.0 -16.6 32.2 887.9 641.5 273.5 26.1 652.4 -4.7 -22.0 24.1 869.8 639.5 282.0 33.1 627.5 -6.4 -2.2 24.4 862.4 637.5 281.5 282.0 33.1 627.5 -6.4 -2.2 24.4 863.4 637.5 281.5 37.1 627.5 -6.4 -7.2 -23.7 25.3 792.8 635.4 275.0 40.8 615.4 -7.2 -23.7 25.3 792.8 635.4 275.0 40.8 615.5 -6.1 -7.2 -24.9 26.4 780.5 633.1 267.0 40.8 50.1 -10.2 -24.9 26.4 780.5 633.1 267.0 41.7 757.1 630.1 264.1 42.8 560.5 -11.7 -26.6 27.7 757.1 630.1 264.1 42.8 560.5 -11.7 -26.6 27.7 757.1 630.1 264.1 42.8 560.5 -11.7 -26.6 27.7 757.1 630.1 264.1 42.8 560.1 11.7 -26.6 27.7 757.1 630.1 264.1 42.8 560.1 11.7 -11.2 -26.6 27.7 757.1 630.1 264.1 41.7 757.1 630.1 264.1 42.8 560.1 42.8 560.1 41.7 757.1 630.1 264.1 41.7 757.1 630.1 264.1 42.8 560.1 42.8 560.1 42.8 560.1 42.8 560.1 42.8 560.1 42.8 560.1 60.2 60.2 60.1 41.7 757.1 60.1 60.2 60.1 41.7 757.1 60.1 60.2 60.1 41.7 757.1 60.1 60.2 60.1 41.7 60.1 60.2	500.0	716.1	7	-11.8	42.3	916		250.5	19.7	1.000217
691.2 -2.2 -16.6 32.2 887.9 641.5 273.5 26.1 65.0 65.1 -3.0 -16.6 32.2 887.9 641.5 273.5 26.1 65.1 -3.0 -16.6 29.5 887.9 641.5 273.5 282.0 65.1 -3.0 -2.0 24.4 872.4 637.5 282.1 33.6 652.4 -4.7 -22.6 24.4 872.4 637.5 281.5 37.1 610.5 65.5 -6.4 -4.7 -22.6 24.4 872.4 637.5 281.5 37.1 610.5 615.4 -7.2 -23.7 25.3 805.8 634.4 271.0 40.8 615.4 -7.2 -23.7 25.3 805.8 634.4 271.0 40.8 615.5 -6.1 -24.9 26.4 780.5 633.1 267.6 41.7 560.0 -10.5 -24.9 26.4 780.5 633.1 267.6 41.7 560.0 -10.5 -28.3 25.6 27.7 75.1 60.5 633.1 267.6 41.7 560.0 -10.5 -28.3 25.6 27.7 75.1 60.5 65.5 1 42.8 557.2 -13.0 -27.4 284.4 745.7 628.5 625.1 42.8 557.1 -14.2 -28.3 29.0 772.6 623.9 266.1 41.9 557.1 -14.2 -28.3 29.0 772.6 623.9 266.1 41.9 557.1 -14.2 -28.3 31.7 691.5 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 41.7 72.6 623.9 260.0 623.9 260.0 623.9 260.0 623.9 260.0 623.9 260.0 250.	0.000	704.5	-1.4	114.5	36.1	4000		264.2	22.6	1.000211
678.0 -3.0 -18.3 29.5 873.7 640.5 278.7 28.9 655.4 -4.7 -22.0 24.1 859.8 639.5 282.0 33.1 655.4 -5.5 -22.0 24.1 859.8 639.5 282.0 33.1 652.8 -5.5 -6.4 -23.2 24.9 819.0 636.5 282.1 34.0 627.5 -6.4 -23.7 25.3 792.8 635.4 275.0 39.7 615.4 -7.2 -24.3 25.8 792.8 635.4 275.0 39.7 615.4 -7.2 -24.3 25.8 792.8 633.1 267.6 41.7 -24.3 25.8 792.8 633.1 267.6 41.7 560.0 -10.5 -25.6 27.7 768.7 631.6 265.1 42.2 560.1 -10.5 -25.6 27.7 768.7 631.6 265.1 42.2 560.1 -10.5 -27.4 28.4 780.5 633.1 264.5 11.7 -26.6 27.7 768.7 631.6 265.1 42.8 550.1 -14.2 -28.2 29.7 745.7 630.1 264.5 11.7 -28.2 29.7 745.5 623.1 264.5 11.7 -28.2 29.7 72.6 623.9 260.1 41.7 72.6 623.9 260.1 41.7 72.6 623.9 260.1 41.7 72.6 623.9 260.1 41.7 72.6 623.9 260.1 41.7 72.6 623.9 260.1 41.7 72.6 623.9 260.1 41.7 72.6 623.9 260.1 41.7 72.6 623.9 260.1 61.9 260.1 41.7 72.6 620.1 61.9 260.1	500.0	691.2	200	-16.6	32.2	887.0		27.5.5	26.1	1.000211
665.1 -3.9 -20.1 26.8 659.8 639.5 282.0 31.1 652.4 -4.7 -22.0 24.1 846.0 638.5 282.1 32.6 632.4 -4.7 -22.0 24.1 842.4 637.5 282.1 32.6 615.4 -7.2 -22.7 24.9 819.0 636.5 276.1 37.1 615.4 -7.2 -23.7 25.8 7792.8 634.4 271.0 40.8 591.7 -9.2 -24.9 26.4 780.5 633.1 267.0 40.8 591.7 -9.2 -24.9 26.4 780.5 633.1 267.0 40.8 591.7 -9.2 -24.9 26.4 780.5 633.1 267.0 40.8 591.7 -26.6 27.0 758.1 630.1 264.1 42.2 560.5 -11.7 -26.6 27.0 758.1 630.1 264.1 42.8 557.2 -13.0 -27.4 28.4 775.1 630.1 264.1 42.2 550.1 -14.2 -28.3 29.0 757.1 630.1 264.1 42.9 550.1 -14.2 -28.3 -30.9 31.1 702.0 622.4 264.9 42.2 59.7 72.6 620.8 264.9 42.2 59.7 72.6 620.8 263.1 44.2 50.0 50.2 4 264.9 42.2 50.0 30.4 702.0 622.4 264.9 42.2 600.1 61.3 260.1 40.2 60.0 61.3 260.1 40.2 60.0 61.3 260.1 40.2 60.0 61.3 260.1 40.2 60.0 61.3 260.1 6	0000	678.0	-3.0	-18.3	29.5	873.7		278.7	28.9	1.000202
652.4	500.0	665.1	6.5	-20-1	26.8	850.0		282.0	31.1	1.000198
639.8 -5.5 -22.6 24.4 832.4 637.5 281.5 34.0 627.5 -6.4 -23.2 24.9 819.0 636.5 278.1 37.1 6615.4 -7.2 -23.7 25.8 792.8 634.4 275.0 39.7 6015.5 601.5 34.0 601.5 -6.4 -23.7 25.8 792.8 634.4 277.0 40.8 591.7 -9.2 -24.9 26.4 780.5 633.1 267.6 41.7 560.0 -10.5 -24.9 26.4 780.5 633.1 267.6 41.7 560.0 -10.5 -25.6 27.7 757.1 630.1 264.1 42.2 560.0 -10.5 -27.4 28.4 780.5 603.1 264.1 42.2 560.1 -14.2 -28.5 27.7 757.1 630.1 264.1 42.2 560.1 -14.2 -28.5 29.0 734.5 6.25.4 266.1 41.9 524.7 -16.8 -30.0 30.4 712.6 6.3.9 260.1 41.7 514.3 -18.0 -30.9 31.1 702.0 6.22.4 260.1 41.7 69.9 601.1 6.9 601.5 6.0 6.9 2.4 670.1 6.9 260.1 41.7 69.5 61.5 6.1 6.9 61.5 6.1 6.9 260.1 61.3 25.8 7 63.0 61.0 55.2 63.0 61.0 55.2 64.4 670.1 61.3 25.8 7 53.3 40.4 670.1 61.3 25.8 7 53.3 40.4 61.5 61.3 260.0 55.2 61.0 61.3 260.0 61.3 260.0 61.3 260.0 61.3 260.0 55.2 61.0 61.3 260.0 61.3	0.000	652.4	-4.7	-22-0	24.1	0.46		282.1	32.6	1000194
627.5 -6.4 -23.2 24.9 819.0 636.5 278.1 37.1 615.4 -7.2 -6.4 -23.7 25.3 805.8 635.4 271.0 40.8 603.1 267.6 41.7 25.8 603.1 267.6 41.7 560.0 -10.5 -23.1 267.6 41.7 7 -26.6 27.7 757.1 631.6 265.1 42.2 560.0 -10.5 -27.4 27.0 768.5 633.1 267.6 41.7 560.5 -13.7 -26.6 27.7 757.1 620.1 264.1 42.8 557.2 -13.0 -27.4 28.4 745.7 628.5 264.1 42.8 557.1 -14.2 -28.3 29.7 723.5 625.4 264.9 42.2 59.7 723.5 625.4 264.9 42.2 59.7 723.5 625.4 264.9 41.7 514.3 -16.8 -31.8 31.7 691.5 620.8 263.1 44.2 504.9 42.2 504.1 -19.3 -31.8 31.7 691.5 620.8 263.1 44.2 504.9 42.2 42.0 504.1 -19.3 -31.8 31.7 691.5 620.8 259.7 49.5 52.0 44.5 -22.9 -33.8 35.8 648.8 615.1 258.7 500.0 55.2 44.5 -22.9 -33.8 35.8 648.8 615.1 258.7 500.0 55.2 44.5 -22.9 -33.8 35.8 648.8 615.1 258.7 260.0 55.1 42.0 56.1 44.5 -22.9 -33.8 35.8 625.1 013.1 260.0 55.2 42.0 60.5 50.0 50.0 50.0 50.0 50.0 50.0 50	500.0	639.8	-5.5	-22.6	74.4	332		281.5	34.0	1.000191
615.4 -7.2 -23.7 25.3 805.8 635.4 275.0 40.8 591.7 -9.2 -24.3 25.8 792.8 634.4 271.0 40.8 591.7 -9.2 -24.9 26.4 780.5 633.1 267.0 41.7 580.0 -10.5 -25.6 27.0 768.7 631.6 267.0 41.7 568.5 -13.0 -26.6 27.7 757.1 630.1 264.1 42.8 557.2 -13.0 -27.4 28.4 745.7 691.5 625.1 42.9 557.1 -14.2 -26.6 27.7 757.1 630.1 264.1 42.8 557.2 -13.0 -27.9 29.0 712.6 623.9 264.9 41.9 524.7 -16.8 -30.9 31.1 702.0 622.4 264.9 44.2 514.3 -16.8 -21.7 -33.2 34.4 670.1 617.8 259.7 44.2 557.1 617.8 259.7 473.9 261.1 44.2 51.7 -33.2 34.4 670.1 617.8 259.7 64.9 44.2 51.7 -33.2 34.4 670.1 617.8 259.7 557.9 44.1 -25.5 -26.6 -24.6 -24.6 -25.9 34.4 670.1 617.8 259.7 557.3 44.1 -25.5 -26.6 -27.8 -35.2 34.8 615.1 260.0 557.3 44.1 -25.5 -36.6 -27.8 -37.5 34.8 615.7 610.3 250.0 557.3 420.7 57.8 -37.9 33.4 57.5 610.3 260.0 557.3 41.8 -26.7 510.3 260.0 557.3	0000	627.5	-6.4	-23.2	54.9	819.0		278-1	37.1	
603.5 -8.1 -24.3 25.8 792.8 634.4 271.0 40.8 591.7 -9.2 -24.9 26.4 780.5 633.1 267.6 41.7 568.5 533.1 267.6 41.7 568.5 533.1 267.6 41.7 568.5 533.1 264.1 42.2 568.5 -11.7 -26.6 27.7 757.1 630.1 264.1 42.8 568.5 -11.7 -26.6 27.7 757.1 630.1 264.1 42.8 557.2 -13.0 -27.4 28.4 745.7 658.5 653.1 264.5 42.8 542.9 264.1 41.9 72.5 652.4 264.5 42.9 264.5 42.9 264.1 41.9 72.5 652.4 266.1 41.9 42.2 514.3 -16.8 -30.9 31.1 691.5 650.8 265.1 41.9 42.2 514.3 -18.0 -30.9 31.1 691.5 650.8 263.1 44.2 473.9 -20.5 -33.8 31.7 691.5 670.8 263.1 44.2 473.9 -20.5 -33.8 35.9 659.6 610.3 259.7 499.5 473.9 -22.9 -33.8 35.9 659.6 610.3 259.7 499.5 473.9 -22.9 -33.8 35.9 659.6 610.3 259.1 54.4 45.1 -25.5 -36.3 35.6 626.1 013.1 260.0 55.2 435.8 445.1 -25.5 -36.3 35.6 626.1 013.1 260.0 55.2 43.8 601.7 610.3 250.0 55.2 41.8 601.7 610.3 250.0 55.2 41.7 601.9 55.2 601.0 55.2 601.	500.0	615.4	-7.2	-23.7	55.3	805.8		275.0	39.7	1.000184
591.7 -9.2 -24.9 26.4 780.5 633.1 267.6 41.7 580.0 -10.5 -25.6 27.7 757.1 630.1 264.1 42.8 568.5 -11.7 -26.6 27.7 757.1 630.1 264.1 42.8 568.5 -11.7 -26.6 27.7 757.1 630.1 264.1 42.8 557.2 -13.0 -27.4 28.4 745.7 628.5 264.5 42.9 540.1 14.2 557.2 -13.0 -27.4 28.4 745.7 628.5 266.1 41.9 524.7 -16.8 -30.0 30.4 712.6 623.9 266.1 41.7 514.3 -16.8 -21.7 691.5 622.4 264.9 42.2 504.9 42.2 504.1 -19.3 -13.8 31.7 691.5 620.8 263.1 44.2 504.9 42.2 504.9 -22.9 -33.8 35.9 659.6 610.3 228.7 49.5 52.2 40.6 -24.6 -24.6 -35.2 36.2 637.0 614.3 228.7 53.3 44.5 605.1 613.1 260.0 55.2 44.5 -26.6 -37.5 34.8 615.1 260.0 55.2 44.5 -26.6 -37.5 34.8 615.1 260.0 55.3 41.6 605.7 610.3 2261.0 55.3 41.8 611.7 -26.6 -27.8 -36.3 35.6 615.7 610.3 2261.0 55.3 41.6 615.7 610.3 2261.0 610.3	000	603.5	-8.1	-24.3	25.8	792.4		271.0	40.8	1.000181
580.0 -10.5 -25.6 27.7 768.7 631.6 265.1 42.2 568.5 -11.7 -26.6 27.7 757.1 630.1 264.1 42.8 557.2 -13.0 -27.4 28.4 745.7 628.5 264.5 43.3 557.2 -13.0 -27.4 28.4 745.7 628.5 264.5 42.9 557.2 -13.0 -27.4 28.4 745.7 628.5 264.5 42.9 265.1 41.9 554.7 -16.8 -30.0 30.4 712.6 623.9 266.1 41.7 514.3 -16.8 -21.7 691.5 620.8 263.1 44.2 504.1 -19.3 -21.7 691.5 620.8 263.1 44.2 49.5 49.5 -21.7 -33.2 34.4 670.1 617.8 259.7 49.5 49.5 49.5 -22.9 -33.8 35.9 659.6 610.3 258.7 49.5 49.5 49.5 49.5 49.5 49.5 49.5 49.5	500.0	591.7	-9.5	-24.9	26.4	780.5		267.6	41.7	1.000178
568.5 -11.7 -26.6 27.7 757.1 631.1 264.1 42.8 557.2 -13.0 -27.4 28.4 745.7 628.5 264.5 42.9 264.5 43.3 540.1 -14.2 -28.2 29.0 734.5 627.0 265.1 42.9 530.3 -15.5 -29.2 29.7 723.5 625.4 266.1 41.9 524.7 712.6 623.9 266.1 41.9 514.3 -16.8 -30.9 31.1 702.0 622.4 266.1 41.9 514.3 -18.0 -31.8 31.7 691.5 620.8 269.0 42.2 514.9 -20.5 -32.6 32.9 680.0 619.3 261.1 46.9 42.2 42.0 26.0 26.1 1 17.8 259.7 49.5 473.9 -22.9 -33.8 35.9 659.6 610.3 258.7 69.5 46.0 610.3 259.1 54.4 670.1 117.8 259.1 54.4 670.1 117.8 259.1 54.4 670.1 117.8 259.1 54.4 670.1 117.8 259.1 55.2 46.0 -24.6 -24.6 -35.2 36.2 637.0 614.3 229.1 55.2 475.9 -25.5 34.8 615.1 260.0 55.2 475.9 -27.8 -35.3 35.6 615.1 13.1 260.0 55.2 475.9 -27.8 -35.3 35.6 615.7 610.3 220.0 55.3 475.9 -27.8 -35.3 35.6 615.7 610.3 220.0 55.3 475.9 -27.8 -35.3 35.6 615.7 610.3 220.0 55.3 475.9 -27.8 -35.3 35.6 615.7 610.3 220.0 55.3 475.9 -27.8 -35.3 35.6 615.7 610.3 220.0 55.3 475.9 -27.8 -27.	0.000	580.0	6.01-	-25°B	27.0	768.7		265.1	42.2	1.000175
557.2 -13.0 -27.4 28.4 745.7 628.5 264.5 42.9 540.1 -14.2 -28.3 29.0 734.5 627.0 265.1 42.9 530.3 -15.5 -29.2 29.7 723.5 625.4 266.1 41.9 524.7 -16.8 -30.0 30.4 712.6 623.9 266.1 41.9 514.3 -18.0 -31.1 702.0 622.4 264.9 44.2 514.3 -18.0 -31.8 31.7 691.5 620.8 264.9 44.2 514.9 -20.5 -32.6 32.9 680.0 619.3 261.1 46.9 473.9 -22.9 -33.8 35.9 659.6 619.3 268.7 49.5 445.1 -21.7 -33.8 35.9 659.6 615.1 258.7 53.3 454.6 -24.6 -24.6 -35.2 36.2 637.0 614.3 259.1 54.4 45.1 -25.5 -36.3 35.6 626.1 013.1 260.0 55.2 45.0 -27.8 -36.3 35.6 615.7 610.3 260.0 55.2 445.7 -27.8 -36.3 33.4 505.7 610.3 260.0 55.3 42.0 610.3 260.0 55.3 42.0 610.0 55.0 610.0 55.0 610.0 55.0 610.0 55.0 610.0 610.0 55.0 610.0 55.0 610.0 55.0 610.0 55.0 610.0 55.0 610.0 55.	500%	564.5	-11.7	-26.6	27.7	757		264.1	42.8	1.000172
540.1 -14.2 -28.3 29.0 734.5 627.0 265.1 42.9 530.3 -15.5 -29.2 29.7 723.5 623.4 266.1 41.9 524.7 -16.8 -30.0 30.4 712.6 623.9 266.0 41.7 514.3 -16.8 -30.0 30.4 712.6 623.9 266.0 41.7 514.3 -16.8 -30.9 31.1 702.0 622.4 266.0 41.7 514.3 -19.3 -21.8 31.7 691.5 620.8 263.1 44.2 40.2 504.9 -20.5 -32.6 32.9 680.6 619.3 263.1 44.2 40.3 -21.7 -33.2 34.4 670.1 619.3 229.7 49.5 46.9 42.2 -22.9 -33.8 35.9 659.6 610.3 228.7 49.5 46.9 46.9 46.9 46.9 -22.9 -34.5 36.8 64.8 611.1 260.0 55.2 46.4 45.1 -22.5 -24.6 -35.2 36.2 637.0 614.3 229.1 54.4 45.1 -25.5 -26.5 -36.3 35.6 626.1 613.1 260.0 55.2 43.3 42.5 -26.6 -27.8 -36.3 35.6 615.8 611.7 260.0 55.2 41.8 611.7 260.0 56.1 41.7 56.7 57.3 41.8 611.7 260.0 56.1 61.3 260.0 56.1 61.7 57.3 41.8 611.7 260.0 56.1 61.7 57.3 41.8 611.7 57.3 41.8	0.000	557.2	-13.0	-27.4	28.4	745.7		264.5	E. 50.	1.000170
535.3 -15.5 -29.2 29.7 723.5 625.4 266.1 41.9 524.7 -16.8 -30.0 30.4 712.6 623.9 260.0 41.7 514.3 -16.0 -30.9 31.1 702.0 622.4 260.0 41.7 514.3 -18.0 -30.9 31.1 702.0 622.4 260.0 42.2 504.1 -19.3 -31.8 31.7 691.5 620.8 263.1 44.2 493.9 -20.5 -32.6 32.9 680.0 619.3 263.1 46.9 493.9 -22.9 -33.8 35.9 659.6 610.3 258.7 53.3 404.2 -24.6 -34.5 36.8 64.8 611.1 260.0 55.2 45.4 626.1 013.1 260.0 55.2 45.4 626.1 013.1 260.0 55.2 45.5 34.8 615.8 611.7 260.0 56.1 435.8 -26.6 -37.5 34.8 613.1 260.0 56.1 426.7 -27.8 -36.3 33.4 50.5 10.3 260.0 56.1	500.0	540.1	-14.2	-28.3	29.0	734.5		265.1	42.9	1.000167
524.7 -16.8 -30.0 30.4 712.6 623.9 266.0 41.7 514.3 -18.0 -30.9 31.1 702.0 622.4 264.9 42.2 514.3 -18.0 -30.9 31.1 702.0 622.4 264.9 42.2 514.1 -19.3 -31.8 31.7 691.5 620.8 263.1 44.2 149.5 -21.7 -33.2 34.4 670.1 619.3 251.1 46.9 14.2 473.9 -22.9 -33.8 35.9 648.8 616.3 259.7 49.5 14.2 -24.6 -34.5 36.2 637.0 614.3 259.1 54.4 145.1 -25.5 -36.3 35.6 626.1 613.1 259.1 54.4 145.1 -25.5 -36.3 35.6 626.1 613.1 260.0 55.2 14.5 45.1 -25.5 -36.3 35.6 626.1 613.1 260.0 55.2 14.5 45.1 -25.5 -36.3 35.6 626.1 613.1 260.0 55.2 14.5 615.8 611.7 260.0 56.1 14.5 612.3 250.0 56.1 612.	0.000	535.3	-15.5	-29.5	29.7	723.5		266.1	41.9	1.000164
514.3 -18.0 -30.9 31.1 702.0 622.4 264.9 42.2 19.3 -18.0 -30.9 31.1 702.0 622.4 264.9 42.2 19.3 -32.6 32.9 680.0 619.3 261.1 46.9 19.5 473.9 -20.5 -33.2 34.4 670.1 617.8 259.7 49.5 19.4 473.9 -22.9 -33.8 35.9 648.8 615.1 258.7 49.5 19.4 454.6 -24.0 -34.5 36.2 659.6 610.3 258.7 53.3 1454.6 -24.6 -35.2 36.2 650.0 614.3 259.1 54.4 19.5 19.5 -26.6 -37.5 34.8 615.8 613.1 250.0 55.2 19.5 425.7 -27.8 -38.7 34.1 660.7 610.3 250.0 55.3 14.6 60.0 33.4 560.0 33.4 560.0 350.0 560.0	500.0	524.7	-16.8	-30.0	30.4	712.6		266.0	41.7	1.000162
504.1 -19.3 -31.8 31.7 691.5 620.8 263.1 44.2 193.9 -20.5 -32.6 32.9 680.6 619.3 261.1 46.9 193.9 49.5 19.7 49.5 19.7 49.5 19.7 49.5 19.7 49.5 19.7 49.5 19.7 49.5 19.7 49.5 19.7 49.5 19.7 49.5 19.7 49.5 19.7 49.5 19.7 52.9 19.7 53.3 19.8 648.8 615.1 258.7 53.3 19.8 645.1 -24.6 -24.6 -35.2 36.2 637.0 614.3 259.1 54.4 19.5 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8	0.000	514.3	-18.0	-30.9	31,1	702.0		5-492	42.2	1.000159
493.9 -20.5 -32.6 32.9 680.6 619.3 261.1 46.9 145.9 145.9 -21.7 -33.2 34.4 670.1 619.3 259.7 49.5 1473.9 -22.9 -33.8 35.9 659.6 610.3 258.5 149.5 140.2 -24.0 -34.5 36.8 648.8 615.1 258.7 53.3 145.6 -24.6 -35.2 36.2 637.0 614.3 259.1 54.4 145.1 -25.5 -36.3 35.6 626.1 613.1 250.0 55.2 145.1 -25.5 -36.3 35.6 615.8 611.7 250.0 55.2 1425.7 -27.8 -38.7 34.8 615.8 611.7 250.0 55.3 1425.7 -27.8 -38.7 34.1 505.7 610.3 250.0 55.3 147.0 -27.8 -37.9 33.4 505.7 610.3 250.0	500.n	504.1	-19.3	-31.8	31.7	691.5		263.1	44.2	1.000156
483.8 -21.7 -33.2 34.4 670.1 617.8 259.7 49.5 1 473.9 -22.9 -33.8 35.9 646.8 615.1 258.7 55.2 1 454.6 -24.6 -35.2 36.2 659.6 615.1 258.7 53.3 1 455.1 -25.5 -36.3 35.6 626.1 614.3 259.1 54.4 1 455.8 -26.6 -37.5 34.8 615.8 611.7 260.0 55.2 1 425.7 -27.8 -38.7 34.1 605.7 610.3 250.4 56.1 1 47.8 -78.9 -37.9 33.4 505.7 610.9 250.4	0000	493.9	-20.5	-32.6	32.9	680.4		261.1	46.9	1.000154
473.9 -22.9 -33.8 35.9 659.6 610.3 258.5 52.2 1 464.2 -24.6 -34.5 36.8 648.8 615.1 258.7 53.3 1 454.6 -24.6 -35.2 36.2 626.1 614.3 259.1 54.4 1 455.8 -36.3 35.6 626.1 613.1 260.0 55.2 1 455.8 -37.5 34.8 615.8 611.7 260.0 55.2 1 426.7 -27.8 -38.7 34.1 605.7 610.3 2601.4 55.3 1 417.8 -20.9 -30.9 33.4 505.7 610.9 2601.4 58.6 1	500°C	483.8	-21.7	-33.2	7. 70	670.1		259.7	49.5	1.000151
454.6 -24.6 -34.5 36.8 648.8 615.1 258.7 53.3 445.1 -25.5 36.8 648.8 615.1 258.7 53.3 445.1 -25.5 36.8 55.2 626.1 013.1 260.0 55.2 1455.8 -26.6 -37.5 34.8 615.8 611.7 260.0 55.1 1450.7 -27.8 -38.7 34.1 605.7 610.3 260.4 55.3 147.8 -26.9 -37.9 33.4 57.5 60.9 56.1 56.1	0.000	475.9	-22.9	-13.A	35.9	659.4		258.5	52.2	1.000149
454.6 -24.6 -35.2 36.2 637.0 614.3 259.1 54.4 1 45.1 -25.5 35.2 657.0 614.3 259.1 54.4 1 55.2 1 626.1 613.1 260.0 55.2 1 435.8 -26.6 -37.5 34.8 615.8 611.7 260.0 56.1 1 426.7 -27.8 -38.7 34.1 605.7 610.3 260.0 58.6 1 60.3 610.3 260.0 58.6 1 60.3 610.3 260.0 58.6 1 60.3 610.3	0.004	つっちいち	0.40-	-34.5	36.8	9 - 11 - 19		258.7) (C)	1.000146
445-1 -25-5 -36-3 35-6 626-1 013-1 260-0 55-2 1 445-8 -26-6 -37-5 34-8 615-8 611.7 260-0 56-1 1 426-7 -27-8 -38-7 34-1 605-7 610.3 260-4 58-6 1 60-1 60-1 60-1 60-1 60-1 60-1 60-1		454.6	-24.6	-35.2	26.2	6.37.0	1	259.1	34.45	1,000144
435.8 -76.6 -37.5 34.8 613.8 611.7 260.0 56.1 1 426.7 -77.8 -38.7 34.1 601.7 610.3 2601.0 57.3 1 4126.7 -78.9 33.4 595.7 610.9 260.4 58.6 1 601.9 260.4 58.6 1	200	445.1		-36.3	4	626.1		260.0		1-000141
426-7 -77-8 -38-7 34-1 605-7 610.3 2501-8 57-3 1 615-7 610.4 58-6 1 58-6 1 617-9 58-6 1		H T'S A	2007	- 17.5	Ø 5			0.607		P 1000 1
417.8 -28.9 -39.9 33.4 5.95.7 tota.9 250.4 58.6 1		426.7	-27.8	-38.7		601.7		8.097	57.3	1.000136
T CACC TANDY CACCACACACACACACACACACACACACACACACACAC	0.000	41/4	0.80.	0.04-	1 3 P			26046	5,83	95 1000 · 1
			2 9		•	0.0		h : (102	•	*C TOOO * T

LEODETIC COOKDINATES	33.16712 LAT DEG 106.49511 LON DEG) 1	A SUCE A	REFRACTION	1.000129	7.5000.1	1.000125	1.000123	1.000120	-	-	-			٠,	1.000106	⊸ -	1000103	~ -	-	-	-	-	_	1.000089	1.000087		#80000•I	1.000082		1.000076	-	-	=	-	_		_	1.000062	~	1.000059
LEODET	33 106	į	1.00.00	KNOTS	61.6	65.0	64.0	65.1	66.3	67.7	68.7	69.5	70.2	70.8	1.07	1.07	60	0.00	70.5	70.3	74.4	75.8	76.2	76.5	76.6	76.7	76.9	0.77	10.4	74.6	73.4	72.7	71.9	71.0	70.0	68.5	67.0	0.99	65.5	6.49	64.3
		2 CV 13	CIPECTION	LEGREES (TN)	258•4	257.1	256.4	255.9	255.3	254.7	253.3	251.7	250 • 0	1.04 2	9.7.50	0.47	C • / +/2	0.012	248.7	24.04.0	5.050	249.5	54648	250.7	251∙8	252.7	253•U	253.1	# 202	5.15°	250.2	250.0	8.6h2	6.642	250.0	250.3	250∙€	250 • 14	251.0	251.5	251.1
٦٨٢٨ 18	cont'	300 11 2 11 3		NOTS NOTS	606.1			_									546.K	0,40,4	040.0 E. 4. fr	5.04.0 0.04.0	500 500 500 500 500				574.1					569.5		570.1	569.3			5/4.6	575.5				574.0
UPPER AIR DATA 0900030018	JALLEN TABLE 19	OFNOTTV	ر	METER	576.3	566.6	557.0	547.5	538.3	529.2	520.5	511.5	502.8	2 · 1/2 · 1	#02.# 7.4.#	9.7.4	164.5	401.0		13.0°C	420.4	421.9	414.4	407.1	399.7	391.5	383.5	3/5.6	307.9	350.4	342.7	334.2	327.1	318.4	308.4	298.7	290.8	285.0	278.9	2,2,5	265.7
,		7 114 130	PERCENT		32,0	31.9	31,7	31.6	31,5	31.4	31.2	31.1	29,54*	23.0**	17.8**	**0*7	***	•																							
T MSL	F.o.	TEMPE RATIDE	INTOOM SO	CENTIGRADE	-42.3	43.4	5. 55.	-45.5	-46.5	-47.6	-48.6	i • 6 ti -	2,1.5	1.50	10/17	C•10-	966.9	0.00																							
51.00 FEET MSL	918 HRS	T PAR	A18	DEGREES	-31.1	-32.3	-33.4	-34.5	-35.7	-36.8	-37.9	-39.1	2.041	141.0	1.424	V	400	-1,7.6	8-8-1	150.0	-51.3	-52.5	-53.7	6.45-	-56.0	-56.7	-5/•5	200	4.05.	160.0	-59.3	0.6,1-	9.65-	0.64-	-57.3	-55.6	-55.0	-55•B	-56.3	7.05.	-56.1
0	. 18	PPFCSUPE		MILLIDARS	4004	391.8	383.3	375.1	367.0	359.0	351.3	545.7	330.2	320.1	4-170	307.0	3000	203.4	286.7	280.0	273.6	267.3	261.1	255.1	249.2	243.2	4000	221.0	220.0	215.6	210.4	205.4	200.5	195.7	191.1	180.5	182.1	17/.8	175.7	•	165.6
NOIJ	ST MAK. BI ASCENSION NO	GFOME TRIC	AL FITUDE	MSL FEET	24000.0	24500.0	25000.0	25500.0	0.00092	26500.0	27000.0	27500.0	0.00002	28200.6	3-00000	30000	\$1500.00 \$1500.00	31000.0	31500.0	32000.0	32500.0	33000.0	33500.0	24000.0	34500.0	35000.0	35500•n	35000-0	30300	5.500.0	34000.0	38500.0	39000.0	39500.0	40000+	40200.0	41000.0	41500.0	42000 n	42500.0	43000.0

** AT LEAST ONE ASSUMED RELATIVE HIMIDITY VALUE WAS USEN. IN THE INTIRPOLATION.

STALION ALTITUDE 40 31 MAR. 81 ASCENSION NO. 18		51.00 FEFT MSL 0918 HRS MST	T NSL MST	-	UPPER AIN DAIA 0900030016 JALLEN TABLE 19 CON1	Dula 16 cont'		JEODE 71 33. 106.	JEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG
GEOMETRIC ALIITUDE MSL FEET	PRESSURE MILLIDARS	TEMPI AIR DEGREES	TEMPERATURE R DEWPOINT EES CENTIGRAGE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEFU OF SOUND NNOTS	WIND DATA DIRECTION SI DEGREES(IN) KI	TA SPEED KNOTS	INDEX OF REFRACTION
0.00044	16.7.9				253		25.12.1	40.5	930000
	154				1.002		1.102		000001
N.005++	10401	150.00			7.47		Z•1cZ	61.1	1.00005
0.0000	0.001	1.00			1.1.7		h•1c2	0.00	1.000034
0.00004	240	19091			2700.0		1.262	0.60	1.00000
46,500.0	140.0	-20•0- -27:1			2002	573.3	6.252	60.09	1.000051
47000.0	130.6	-57.5			220.8		248.7	64.7	0.0000.1
47500.0	135.4	-58.0			216.0		246.2	67.0	1 - 000048
48000.0	130.2	-58.5			211.3		243.5	0.69	1.000047
46500.0	127.1	-59.0			206.7	•	240.0	71.1	1.000046
49000.0	124.0	-29.4			202.2		240.1	71.6	1.000045
49500.0	121.1	-59.9			197.8		241•4	70.5	1.000044
0.00000	118.2	4.09-			193.5		242.6	69.5	1.000043
51800-0	112.6	160.9			185.0	567.6	2.0.2 2.0.3 2.0.3 2.0.3 3.0.3	70.1	1.000042
51500.0	109.9	-61.8			181.2		2512	70.8	1.00004
52000.0	107.3	-62.3			177.3		252.2	72.0	1.000039
52500.0	104.7	-62-1			172.8		253.0	73.2	1.000038
53000.0	102.2	-61.8			168.4		253.7	72.1	1.000038
53500.0	7.66	-61.5			164.1		254.5	68.5	1.000037
54010.0	6.76	-61.5			160.1		254.7	65.0	1.000036
54500.0	6.046	-61.5			156.3		255.0	61.6	1.000035
7.00047	9.70	-61.5			152.5		255.2	58.2	1.000034
55000.0	80.3	-60.2			140.0	00.4 0.4 0.4	254 • 1	90.0	1.000032
56500.0	80.2	-59.5			140.3		253.2	54 • 1	1.000031
57000.0	84.1	-58.1			136.3		252.0	51.7	1.000030
57500.0	82.1	-57.1			132.5		250.7	48.9	1.000030
0.0008c	80.2	-56.1			128.7		54642	45.6	1.000029
50500•0	78.3	-55.1			125.1		248.7	41.3	1.000028
5900 0. 0	70.4	0 · † i			121.5		247.7	57.1	1.000027
0.0006.0	0 0	0.4°			118.9		5.047	31.6	1.000026
0.00000 0.00000	72.9	-55°			116.6		2.44.42	25.9	1.000026
0.0000 ·	2017	2.05			0 • + T T		h•1•2	/•0>	1.000025
61000.0	ر بار ر	-5/-1			112.0		236.3	16.2	1.000025
01500 · C	200	20.00			109.8	571.4	201.00	11.9	1.000024
52500.0	6.4.6	H-07-			10.401		250.7	10.	1.000023
63000.0	63.0	-F.0.8			103.4	_	220.0	10.7	1 • 000023
55500.n	61.5	-61.7			101.4		220.4	12.9	1.000023

~	106.49511 LON DEG	WIND DATA INDEX	SPEED	_	231.6 15.9 1.000022	235-1 18-9 1-000022	22.7 1.00002	26.5	30.3	33.1	35.9	1.000018	1.000018	1.000017	1.000017	1.000016	1.000016	1.000016	1.000015	1.000015	\$1000C-1	\$10000·1			1.000013	1.00013	1.000012	210000.	1:00001	1.000011	1.000011	1.000010	1.00010	1.000010	1.000010	1.000010	1.00000	1.00000	1.000009	
UPPER AIN DATA 090003001 0 Jallen	TABLE 19 cont'	DENSITY SPEFU OF			99.4 565.3	97.4 564.1	I.	Ī						76.9 576.4							6301 3/0.9		60.6 577.1		57.8 577.2	56.4 577.2		00000000000000000000000000000000000000							•					
US1.nO FEET MSL 0918 HRS MST		TEMPERATURE REL. HIM.	DLWPOINT	CENTIGRADE	9	ır.		~		=		-		2	ic i	_	6 .	~	0 1	0		·	7	7	·c·	G.	n v	o e		60	2	æ	N		æ.	.c :	3 '		5	•
100£ 4	NO. 18	PRESSURE		MILLIUARS DE	09 (85	57.2	55.8	54.5	53.2	51.9	50.7	49.5	40.3	47.2	46.1	0.04	0.4	6.74	7 - 1	0.04	39.1 -53.7	38.2	37.3	30.4 -53.6	32:0	0.4	0.4		31.7	30.9	30.0	24.0	50.5	2002	27.6	50.0	50°3		
STATION 31 MAR.	ASIENSION NO	GE UILE TRIC	ALIITUDE	MSL FEET	0.000+9	04500.	65000.0	.5500	660000	66500	67000.0	67500.0	68000	68500.0	69000.U	0.00569	10000	70500	-00012	72000-0	72500	73000	73500	74000	74500.0	0000/	75000	76500	77000	77500.0	78000.	78500.0	.00067	19500.0	v.00000	60500.0	81000.0	81500.n	42000.0	

STATION ALITUDE 4051.00 FEET MSL 31 MAR. 81 ASCENSION NO. 18 PRESSURE GEOPOTENTIAL MILLIBARS FEET A50.0 4987. B60.0 6627. 750.0 12084. 650.0 14135. 650.0 14135. 650.0 14135. 650.0 14135. 650.0 27049. 300.0 30469. 250.0 3458. 250.0 3458. 250.0 3458. 250.0 3458. 250.0 3458. 250.0 57850. 700.0 63810. 65810. 560.0 72222.	1 T T T T T T T T T T T T T T T T T T T	### ##################################	LEVELS 2018 0 NFI - HUM. 34. 34. 34. 34. 34. 34. 34. 34. 331.	WILL DAIA DIRECTION SIDEGREES (TN) K 309-8 L 302-8 L 202-8 L 202-8 L 254-3 L 254-3 L 259-9 H 259-3 H 259-4 H 259-7 T 259-8 H 259-8 H 259-9 H 2	JEODETIC COOKDINATES 33.16712 LAT DEG 33.16712 LAT DEG 106.49511 LON DEG 11.5 4.9 12.8 23.7 52.8 41.1 43.3 43.3 43.3 43.3 43.3 43.3 43.3
	•	-47.6			

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.